

October 2021 Groundwater Monitoring Report

**Triple Stop Chevron
1034 West Gentile Street, Layton, Utah
Facility ID No. 3000500, Release Site NUB**

November 23, 2021

Terracon Project No. 61197153



Prepared for:

Utah Department of Environmental Quality
Division of Environmental Response and Remediation
Salt Lake City, Utah

Prepared by:

Terracon Consultants, Inc.
Midvale, Utah

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Materials



November 23, 2021

Utah Department of Environmental Quality
Division of Environmental Response and Remediation
195 North 1950 West
PO Box 144840
Salt Lake City, Utah 84114-4840

Attn: Mr. Kevin Beery
P: 801.536.4214
E: kbeery@utah.gov

Re: October 2021 Groundwater Monitoring Report
Triple Stop Chevron
1034 West Gentile Street, Layton, Utah
Facility ID No. 3000500, Release Site NUB
Terracon Project No. 61197153

Dear Mr. Beery:

Terracon is pleased to provide this report documenting the October 2021 groundwater monitoring event. The report also discusses installation of three new monitor wells in the Angel Crossing Subdivision.

We appreciate the opportunity to have performed these services for you. Please contact our office at [801] 545-8500 if you have questions regarding this information or if we can provide any other services.

Sincerely,

Terracon Consultants, Inc.

Curt Stripeika
Senior Project Manager
UST Certified Consultant #CC0003

Erik Gessert
Authorized Project Reviewer

For:



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**October 2021 Groundwater Monitoring
Triple Stop Chevron
1034 West Gentile Street, Layton, Utah
Facility ID No. 3000500, Release Site NUB**

Terracon Project No. 61197153
November 23, 2021

1.0 INTRODUCTION

1.1 Site Description

Site Name	Triple Stop Chevron
Site Location/Address	1034 West Gentile Street, Layton, Utah
Site Improvements	The site operates as a convenience store and retail gas station.

Exhibit 1 (Appendix A) presents the general location, shows locations of the wells in relation to pertinent site features, and depicts groundwater elevations and elevation contours based on measurements collected during this sampling event. **Exhibits 2, 3, and 4** displays the benzene isocontour maps for October, July and April of 2021, respectively.

1.2 Project Background

On February 14, 2019, Layton City reported petroleum odors in the basement of a home near the intersection of Gentile and Angel streets (Angel Crossing Subdivision). On February 16, 2019, two other homeowners reported gasoline vapors in their basements. This prompted an investigation initiated by the Utah Division of Environmental Response and Remediation (DERR). The nearby Triple Stop Chevron (Chevron) gas station was identified as a suspect source of the petroleum vapors.

An analysis of inventory control records in November of 2019 by the DERR revealed that from March of 2013 to March of 2019, Chevron lost between 22,000 to 23,000 gallons of unleaded fuel. The cause of the release was attributed to a crack in the downtube below the spill bucket. The release is believed to have occurred at a rate of 20 gallons per load of unleaded fuel delivered. The downtube was repaired in April of 2019 and it is presumed the release has stopped.

At the request of DERR and the Owner of Triple Stop Chevron, Mr. Mark Smith, Terracon prepared a Work Plan to assist with development of a strategy for containment and remediation of the release. As a response to the release, CalClean (a mobile high vacuum extraction unit) was brought to the site for the purpose of removing impacted groundwater and recovery of light non-aqueous phase liquid (LNAPL). The unit operated on the Chevron site for five weeks and for one week on the south side of Gentile Street, directly south of the Chevron. During that time, 194,760 gallons of water was recovered and discharged under permit to the South Davis Sewer

District Reclamation Plant. During that time, it was estimated that 2,545 gallons of light non-aqueous phase liquid (LNAPL) was recovered.

Terracon subsequently submitted a Corrective Action Plan (CAP) for a vapor extraction system (SVE) for source reduction and vapor mitigation at the Chevron. The system has been in operation since July 2020. As of August 4, 2021, the system has recovered 2,252 equivalent gallons of gasoline in the vapor phase plus the 2,545 gallons from CalClean system for a total of 4,797 gallons equivalent of gasoline recovered. Additionally, approximately 30 gallons of LNAPL has been recovered from MW-10 through manual bailing of the well.

Additional remedial measures are being implemented at the source of contamination (Triple Stop Chevron) to include an air sparge system that will operate 6 sparge wells, four located in Gentile Street and two on the Chevron property. The purpose is to further remove dissolved and absorbed phase that is contributing to the mass flux of contamination flowing into the neighborhood. This work is being performed under workplan NUB 17 and NUB 19. The system is expected to be operational in early 2022.

1.3 Scope of Work

This report documents the groundwater sampling event conducted in October of 2021 to evaluate concentrations of dissolved petroleum hydrocarbons and determine groundwater elevations at the Site for evaluation of present groundwater conditions. Additionally three monitoring wells were installed in the Angel Crossing subdivision. Well construction details and soil sample results are presented within this report.

1.4 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, express or implied, regarding the findings, conclusions, or recommendations. Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report.

1.5 Additional Scope Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable, or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during our investigation. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests,

assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

1.6 Reliance

This report has been prepared for the exclusive use and reliance of Triple Stop Chevron, Inc. and authorized regulatory agencies having jurisdiction over the release case file. Use or reliance by any other party is prohibited without the written authorization of Triple Stop Chevron, Inc. and Terracon.

Reliance on the report by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, report, and Terracon's Terms and Conditions. The limitation of liability defined in the Terms and Conditions is the aggregate limit of Terracon's liability to the client and all relying parties.

2.0 MONITOR WELL INSTALLATION

2.1 Preliminaries

The public utility location service (Blue Stakes) was notified at least 48 hours prior to drilling, as required by law. Terracon also arranged for a private utility locating company to clear boring locations.

2.2 Soil Sampling

Terracon advanced three vertical soil borings (MW-40, 41 and 42) on October 5, 2021 within the centerline of the plume in the Angel Crossing Subdivision as shown on **Exhibit 1 (Appendix A)**. The soil borings for the monitor wells were advanced using a track-mounted direct-push drilling rig to a maximum depth of approximately 20 feet below the ground surface (bgs). Drilling equipment was cleaned, using a high-pressure washer prior to beginning the project and before beginning each boring. Non-dedicated sampling equipment was cleaned using an Alconox® detergent wash and potable water rinse prior to commencement of the project and between the collection of each sample.

Three soil samples were collected from each monitor well boring based on observed petroleum hydrocarbon impacts (e.g., PID readings, staining and odors). Detailed soil descriptions and PID readings are included on the soil boring logs provided in **Appendix C**.

2.3 Monitoring Well Installation

The soil borings were converted into permanent groundwater monitoring wells. The monitoring wells were constructed as follows:

- Installation of 15 feet of 2-inch diameter, 0.010-inch machine slotted polyvinyl chloride (PVC) well screen with a threaded bottom cap from 5 to 20 feet bgs.
- Installation of 2-inch diameter, threaded, flush-joint PVC riser pipe to the surface.
- Addition of pre-sieved 10/20 grade silica sand for annular sand pack around the well screen from the bottom of the boring to approximately 2 feet above the top of the well screen.
- Placement of 2 feet of hydrated bentonite pellets above the sand pack.
- Addition of cement/bentonite slurry to the surface.
- Installation of a 7-inch diameter, circular, bolt-down, steel, monitoring well cover with a locking well cap inset in a flush-mount concrete well pad.

2.4 Groundwater Sampling

The newly installed monitor wells MW-40, 41 and 42 were developed using a new disposable bailer for each well and were allowed to equilibrate overnight. Terracon returned to the site to collect one groundwater sample from each of the three newly installed monitoring wells (MW-40, 41 and 42) as described in Section 3 of this report.

2.5 Groundwater Elevation Survey

The elevation of the top of the monitor well casings were surveyed relative to an existing common benchmark and connected to the monitoring well network. Groundwater levels were measured in the monitoring wells prior to groundwater sampling. The measured water levels were used in combination with the casing elevations to evaluate groundwater elevations, direction of groundwater flow, and gradient.

2.6 Investigation-derived Waste

Soil cuttings were not generated during installation of the monitoring wells using direct push technology. Monitoring well purge water was surface-applied in the vicinity of the well that generated the water and was allowed to infiltrate and/or evaporate. Care was taken not to allow purge water to affect nearby receptors (e.g., storm water catch basins, utilities, property boundaries, etc.). Purge and development water from wells exhibiting LNAPL were drummed for off-site disposal by STC of Salt Lake City, Utah.

3.0 GROUNDWATER MONITORING

Terracon conducted the groundwater sampling event from October 5 through October 7, 2021. Terracon collected depth-to-water measurements and groundwater samples from 24 monitoring wells.

The list of wells and rationale for sampling is listed below:

Wells	Location	Rationale
MW-8	Chevron	Upgradient
MW-10, MW-13 & 14	Chevron	Source
RW-2, MW-22, 23, 24, & 35	Gentile Street	In plume
MW-1, 2, 4, 18, 19 , 20, & 30	Residential neighborhood	In plume
MW-31, 32, 37, 38, 39, 40, 41 & 42	Residential neighborhood	Downgradient plume edge
Total number of wells to be sampled - 24		
Wells for MNA samples – MW-8, MW-13, MW-24, MW-1, MW-19, MW-20, MW-31, MW-32, MW-37, 40, 41 &42		

The wells were sampled by a Utah-certified UST Groundwater and Soil Sampler (Roy McDonald, GS 0097) with oversight from a Utah-certified UST Consultant (Curt Stripeika, CC 0003). Terracon sampled the wells following low flow sampling standard operating procedures for well sampling, which included using a peristaltic pump, new Teflon tubing per well and using a YSI water quality meter. Wells were sampled when field parameters stabilized as defined by three consecutive readings were within 10 percent of each other.

3.1 Site Observations

Exhibit 1 (Appendix A) shows the calculated groundwater elevation and inferred groundwater flow direction. The groundwater flow direction was toward the southwest. A groundwater gradient was calculated as 0.011 feet/foot between the MW-8 and MW-32. **Table 1 (Appendix B)** presents a summary of the gauging data. Comparing the gauging data collected in July 2021 to this gauging event shows a groundwater elevation decrease of approximately 0.36 feet in MW-8 at the upgradient side of the plume to a decrease of 0.19 feet in MW-32 at the downgradient edge.

3.2 Investigation-derived Waste

Monitoring well purge water was surface applied in the vicinity of the well that generated the water and was allowed to infiltrate and/or evaporate. Care was taken to not allow purge water to affect nearby receptors (e.g., storm water catch basins, utilities, property boundaries, etc.).

4.0 LABORATORY ANALYTICAL PROGRAM

The groundwater and soil samples were submitted to Pace Analytical National for analyses of methyl tert-butyl ether, benzene, toluene, ethyl benzene, xylenes, and naphthalene (MBTEXN); total petroleum hydrocarbons – gasoline range organics (TPH-GRO), using EPA Method 8260; and total petroleum hydrocarbons – diesel range organics (TPH-DRO) with silica gel treatment (SGT), using EPA Method 8015. Additionally, natural attenuation parameters ferrous iron,

dissolved iron, dissolved manganese, nitrate, sulfate, were also analyzed in select wells. The executed chain-of-custody records and laboratory data sheets are provided in **Appendix D**.

5.0 DATA EVALUATION

Refer to **Table 1 (Appendix B)** for a summary of the groundwater laboratory analytical results. The analytical data are compared to regulatory screening levels, including the Initial Screening Levels (ISL) and Tier 1 Screening Criteria established by the DERR. **Table 2 (Appendix A)** summarizes presents the natural attenuation parameters and **Table 3 (Appendix A)** summarizes soil analytical data collected during the installation of the most recent monitor wells MW-38, 39 40, 41 and 42.

Exhibits 2, 3 and 4 (Appendix A) shows benzene concentrations and inferred isoconcentration contours for the October, July, and April 2021 groundwater sampling events.

5.1 Groundwater Sample Results

Triple Stop Chevron

Monitor wells MW-8, MW-13, and MW-14 were sampled on the Triple Stop Chevron. Monitor well MW-8 (upgradient of presumed release location) had very low detections of naphthalene above laboratory reporting limits. MW- 14 reported detections of petroleum but below the ISLs. MW-13 had detections of petroleum above the ISLs.

Off-Site Groundwater Sample Results (Gentile Street)

Gentile Street

Groundwater samples were collected from wells MW-22, MW-23, MW-24, and MW-35 located along the right of way of Gentile Street and RW-2 in the street adjacent to the sanitary sewer line. Multiple petroleum hydrocarbons were above the laboratory detection limit. The benzene concentration in groundwater collected from RW-2 was 0.982 mg/L, a significant decrease from 11.60 mg/L that was detected in September 2019 when the well was installed. Monitor wells MW-22 and 23 had detections of petroleum but all below the the ISL. Monitor well MW-24 had a benzene detection of 0.0438 mg/L and TPH GRO of 3.69 mg/l, both above the ISL.

Residential Neighborhood

Groundwater samples were collected from wells MW-1, MW-2, MW-4, MW-18, MW-19, MW-20, MW-30, MW-31, MW-32, MW-37,MW-38, MW-39, MW-40, MW-41 and MW-42 within the subdivision. Monitor wells MW-1, MW-2, MW-4, MW-19, MW-20, MW-40, MW-41 and MW-42 reported petroleum concentrations that exceeded ISL and/or Tier 1 Screening Levels. Monitoring wells MW-37, MW-38 and MW-39 did not report petroleum hydrocarbons above the laboratory detection limit. Monitor wells MW-31 and MW-32 had detections of petroleum but below the ISLs.

5.2 Summary of Natural Attenuation Parameters

In general, pH throughout the plume appears to be neutral, ORP is predominantly negative, and oxygen concentrations are inadequate for aerobic degradation. In wells with significant dissolved iron, the dominating species is ferrous iron. Nitrate appears to be depleted throughout the plume (low residual values as compared to upgradient well MW-8). Sulfate concentrations in the plume are reduced as compared to upgradient levels, however, sulfate has not been fully consumed and significant sulfate remains in the system for further reduction. Based on these lines of evidence, the system is reducing at the sulfate reduction stage (moderately low ORP, depleted nitrate, depleted ferric iron, partially depleted sulfate and some methane production) along the plume centerline and emanating slightly outward from the centerline (between MW-19 north towards RW-02 and MW-13). Obstacles to further microbial reduction could be due to benzene toxicity, a lack of nutrients, or lack of ubiquitous microbes.

5.3 Summary of Soil Analytical Results

Soil analytical results for the three monitoring wells MW-40, MW-41 and MW-42 show low levels of petroleum was detected but all detections were below the ISL's.

6.0 FINDINGS, CONCLUSIONS

Groundwater monitoring data show the following:

- Groundwater elevations have decreased across most of the project site between approximately 0.25 feet since the previous sampling event in July 2021.
- The overall groundwater concentrations have continued to decrease at the source (Triple Stop Chevron).
- The new monitor well MW-42 had the highest benzene concentration of 6.57 mg/l.
- No LNAPL was observed in the wells during this sampling round.
- Soil samples collected from the three new monitoring wells MW-40, MW-41 and MW-42 showed little adsorbed phase is present in the soils. Concentration detected were below the ISLs.

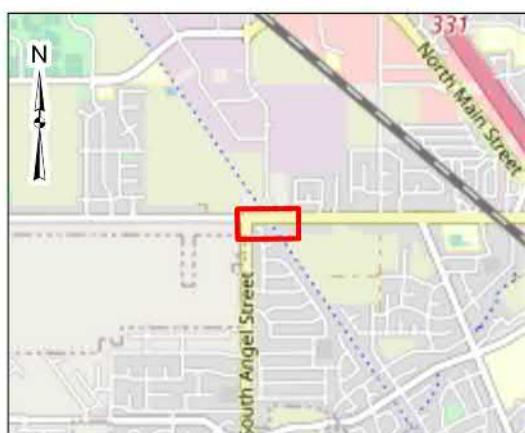
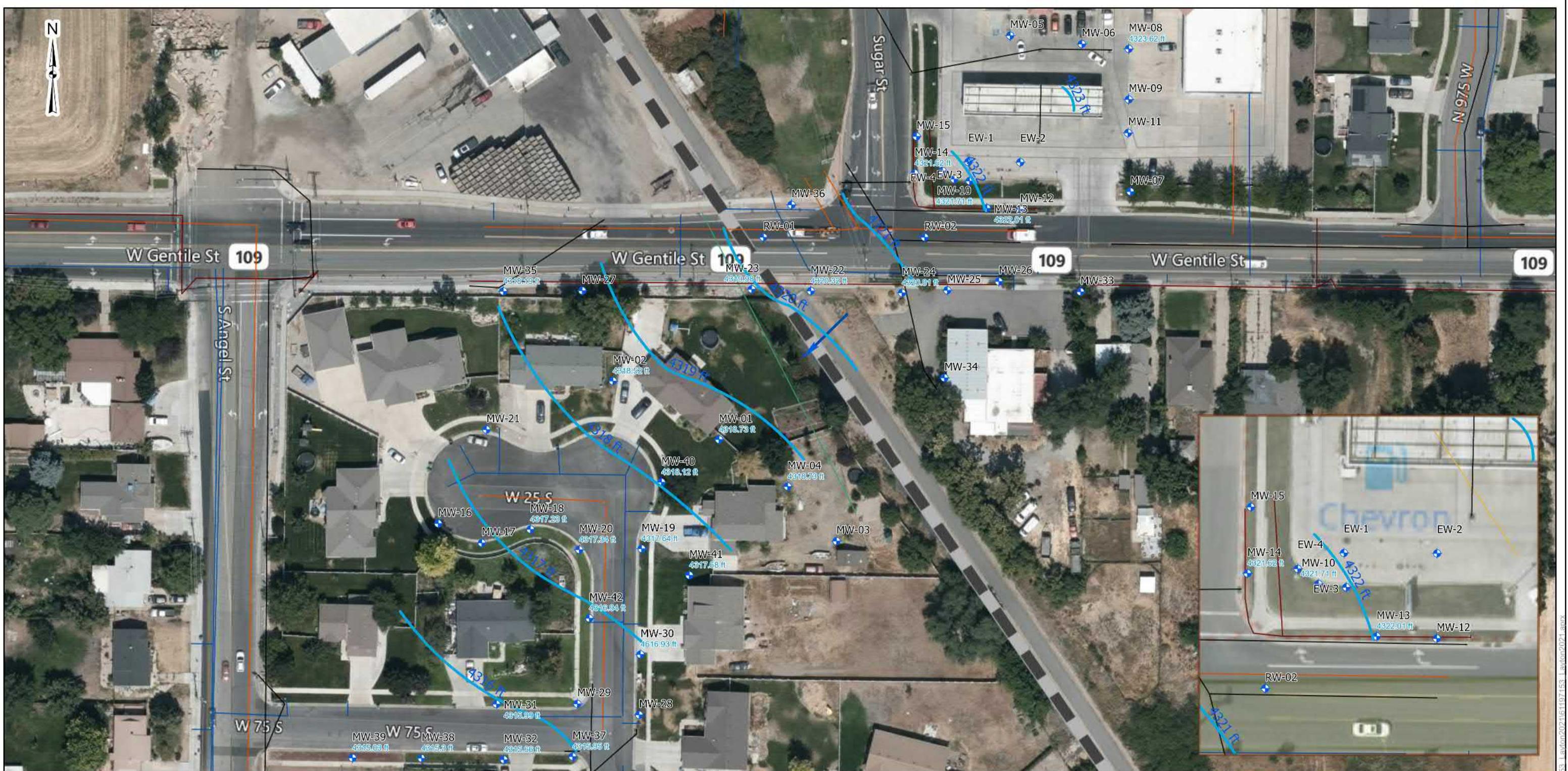
7.0 FUTURE WORK

It is proposed to continue quarterly monitoring of the groundwater with the purpose of evaluating the dissolved phase plume stability and the aquifer's ability to naturally degrade the petroleum contamination.

Additional remedial measures are being implemented at the source of contamination (Triple Stop Chevron) to include an air sparge system that will operate 6 sparge wells, four located in Gentile Street and two on the Chevron property. The purpose is to further remove dissolved and

absorbed phase mass that is contributing to the mass flux of contamination flowing into the neighborhood. This work is being performed under workplan NUB 17, and NUB 19. The system is expected to be operational in early 2022.

APPENDIX A
Exhibits



- Groundwater Elevation (ft), October 2021
- Approximate Groundwater Flow Direction
- ◆ Monitoring Well
- ◆ Monitoring Well
- D&RGW Rail Line
- Storm Drain Lines
- UTOPIA AsBuilt Lines
- Waterlines
- Sanitary Sewer Lines
- Andeavor Pipeline

DATA SOURCES:
ESRI WMS - World Aerial Imagery, OpenStreetMap

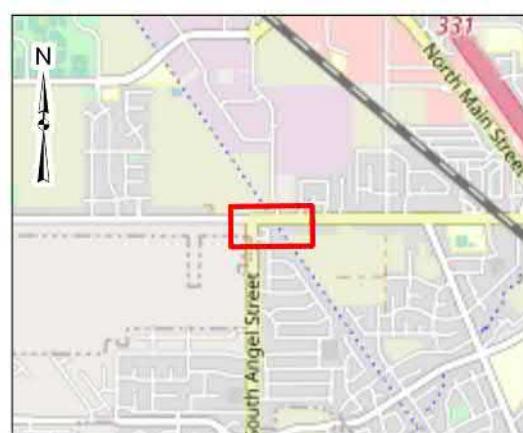
Project No.:
61197153
Date:
Nov 2021
Drawn By:
AST
Reviewed By:
ERG

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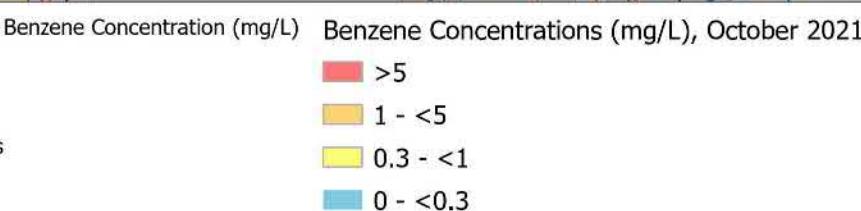
Groundwater Elevation Map, October 2021

TSC - Layton Chevron
Triple Stop Chevron Inc.
1034 West Gentile Street
Layton, UT 84041

Exhibit
1



- Monitoring Well with Benzene Concentration (mg/L)
- D&RGW Rail Line
- Storm Drain Lines
- UTOPIA AsBuilt Lines
- Waterlines
- Sanitary Sewer Lines
- Andeavor Pipeline



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Date: Nov 2021
Drawn By: AST
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Benzene Concentrations, October 2021

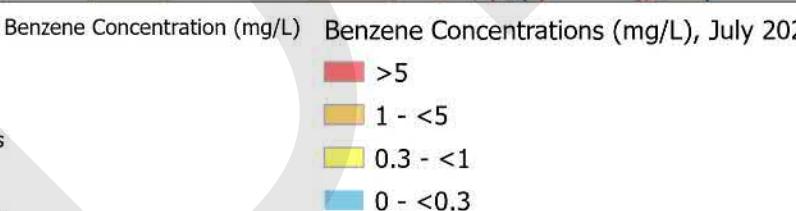
TSC - Layton Chevron
Triple Shop Chevron Inc.
1034 West Gentle Street
Layton, UT 84041

Exhibit

2



- ♦ Monitoring Well with Benzene Concentration (mg/L)
- D&RGW Rail Line
- Storm Drain Lines
- UTOPIA AsBuilt Lines
- Waterlines
- Sanitary Sewer Lines
- Andeavor Pipeline



0 80 160 320
Feet



- Monitoring Well with
- D&RGW Rail Line
- Storm Drain Lines
- UTOPIA AsBuilt Lines
- Watertables
- Sanitary Sewer Lines
- Andeavor Pipeline

¹⁾ Benzene Concentrations (mg/L), April 2021

DATA SOURCES:
ESRI WMS - World Aerial Imagery, OpenStreetMap

Project No.:	6119715
Date:	May 2022
Drawn By:	AS
Reviewed By:	JRC

Terracon

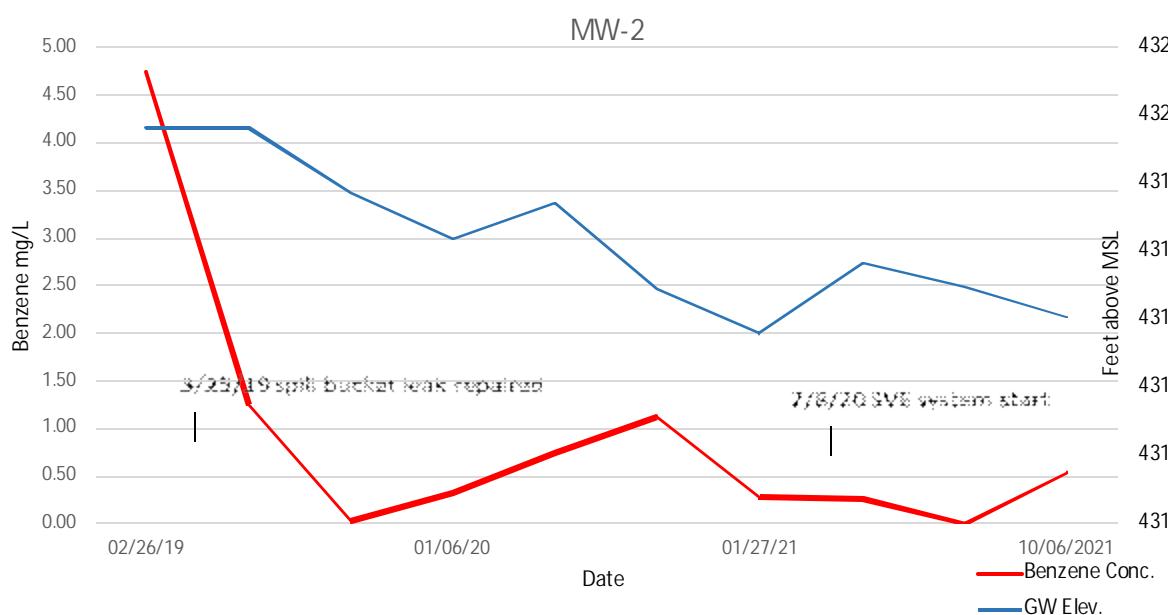
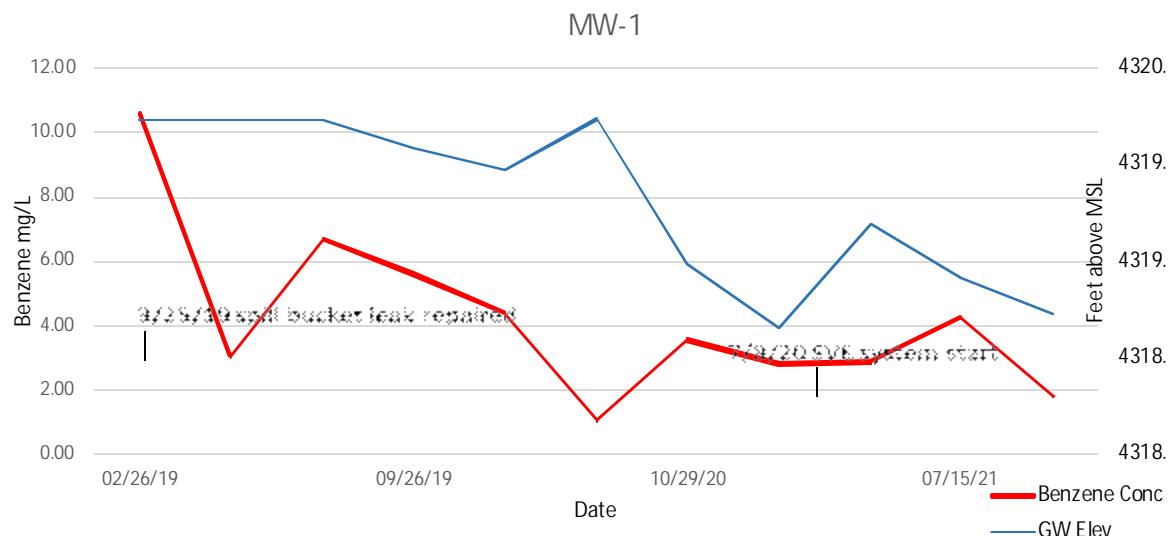
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Benzene Concentrations, April 2021

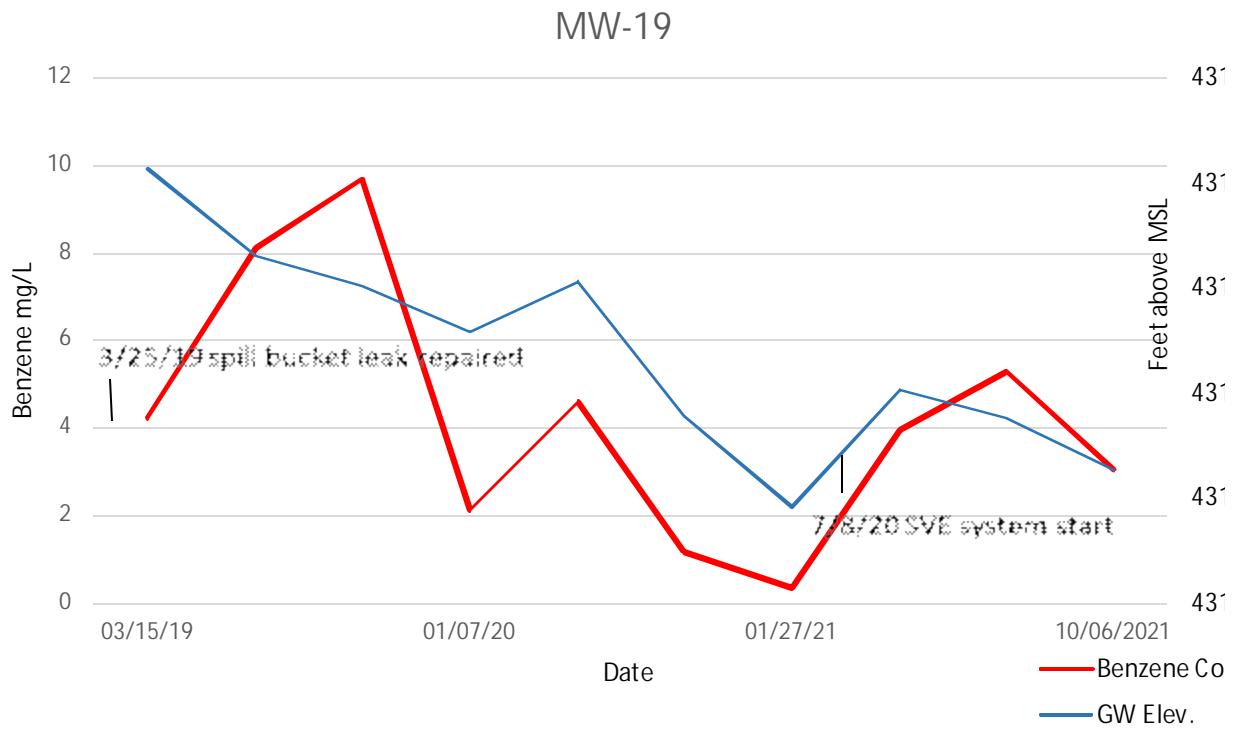
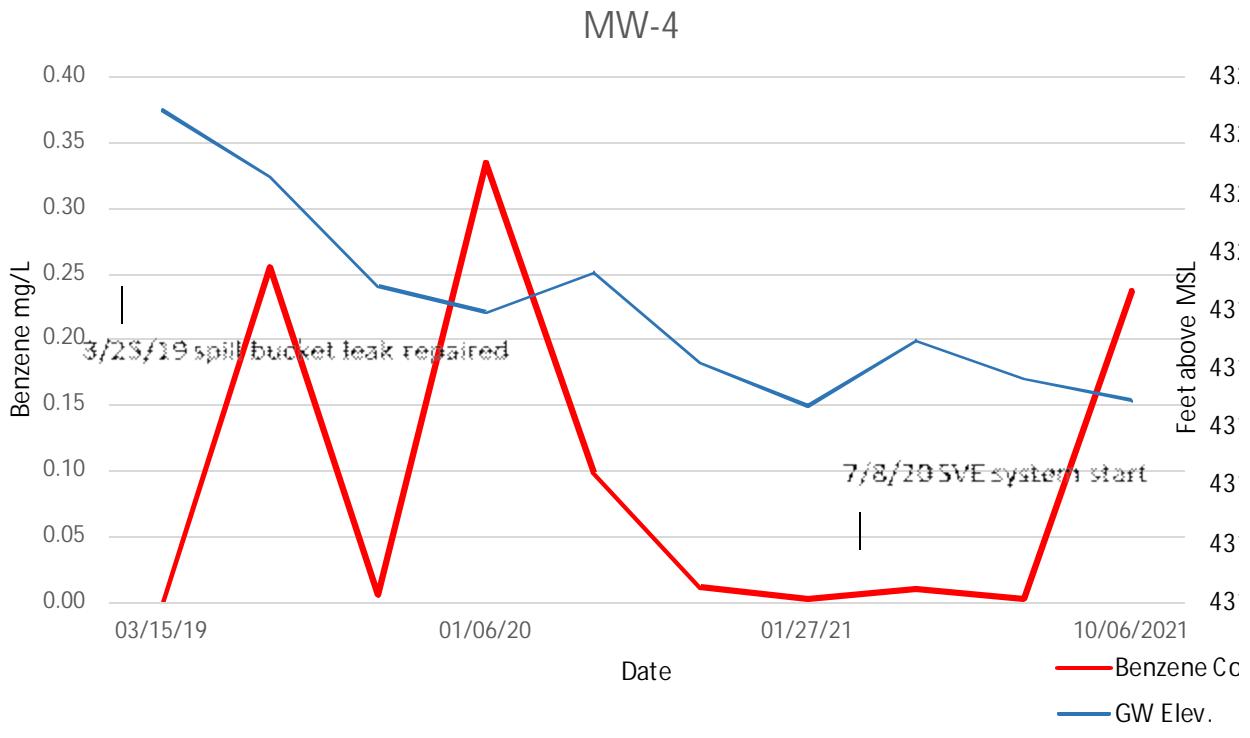
Exhibit

4

Hydrograph showing benzene concentration relative to groundwater elevation



Hydrograph showing benzene concentration relative to groundwater elevation



Hydrograph showing benzene concentration relative to groundwater elevation



APPENDIX B

Analytical Data Tables

Table 1
Monitoring Well Data and Analytical Results
Triple Stop Chevron
1034 West Gentile Street, Layton, Utah
Release NUB; Facility ID 3000500
Terracon Project 61197153

Sample ID	DATE	TPH-DRO	TPH-GRO	BENZENE	ETHYL-BENZENE	MTBE	NAPH-THALENE	TOLUENE	XYLENES	FPT	DTW	Groundwater Elevation
		MM/DD/YY	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(feet)	(feet)	(feet)
DERR ISL		1	1	0.005	0.7	0.2	0.7	1	10			
DERR Tier 1		10	10	0.30	4	0.2	0.7	3	10			
MW-1	02/26/19	1.3	17.6	10.60	1.28	<0.005	0.101	0.416	1.63	NM	NM	4319.73
	03/15/19	1.1	7.67	3.06	0.377	<0.005	0.037	0.595	1.41	0.00	9.77	4319.73
	09/04/19	1.06	18.00	6.70	0.551	<0.00100	0.0440	2.41	3.18	0.00	10.46	4319.73
	09/26/19	1.73	11.00	5.63	0.475	<0.100	<0.100	2.06	2.53	0.00	10.60	4319.59
	01/06/20	0.912	25.50	4.38	0.578	<0.100	0.0773	2.08	3.28	0.00	10.71	4319.48
	04/01/20	0.440	<100	1.08	0.167	<0.200	<1.00	0.337	0.688	0.00	10.45	4319.74
	10/29/20	0.737	15.10	3.59	0.484	<0.002	0.0385	2.040	2.110	0.00	11.20	4318.99
	01/27/21	1.10	13.1	2.84	0.565	<0.0250	0.0451	0.463	1.75	0.00	11.53	4318.66
	04/07/21	1.50	2.79	2.89	0.0644	<0.00500	0.00837	1.12	0.396	0.00	10.99	4319.20
	07/15/21	1.17	132	4.24	0.781	<0.200	<1.00	1.3	5.58	0.00	11.27	4318.92
	10/06/2021	0.784	7.68	1.86	0.386	<0.0250	0.073	0.253	2.27	0.00	11.46	4318.73
MW-2	02/26/19	<1.0	6.95	4.74	<0.012	<0.005	0.053	<0.012	0.106	NM	NM	4319.91
	03/15/19	<1.0	2.4	1.24	0.03	<0.005	0.028	0.018	0.086	0.00	10.10	4319.91
	09/04/19	<0.100	0.430	0.02	0.00398	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.58	4319.43
	01/06/20	0.0807	1.760	0.33	0.0522	<0.00100	0.00473	0.000562	0.0182	0.00	10.92	4319.09
	04/01/20	0.383	4.480	0.76	0.132	<0.0100	0.0309	0.0134	0.6320	0.00	10.65	4319.36
	10/29/20	0.636	9.050	1.12	0.370	<0.001	0.0532	0.0226	1.2	0.00	11.28	4318.73
	01/27/21	0.139	2.92	0.282	0.115	<0.0100	<0.0500	0.3220	0.584	0.00	11.61	4318.40
	04/07/21	0.418	1.45	0.264	0.0441	<0.0100	<0.0500	0.0102	0.121	0.00	11.10	4318.91
	07/15/21	<0.100	0.575	0.00204	0.000733	<0.00100	<0.00500	<0.00100	0.000697	0.00	11.27	4318.74
	10/06/2021	0.403	7.67	0.527	0.307	<0.0100	0.0492	0.0519	2.32	0.00	11.49	4318.52
MW-3*	03/15/19	<1.0	2.71	0.550	0.073	<0.005	<0.012	0.027	0.813	0.00	9.51	4319.78
MW-3	03/19/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	8.72	4320.57
	09/04/19	<0.100	0.327	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	9.74	4319.55
	01/06/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	9.84	4319.45
	04/01/20	<0.100	<0.500	0.00	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	0.00	9.54	4319.75
MW-4*	03/15/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	8.83	4321.22
MW-4	03/19/19	<1.0	1.23	0.2560	0.020	<0.005	<0.012	<0.012	0.302	0.00	9.40	4320.65
	09/04/19	<0.100	0.351	0.0050	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	10.35	4319.70
	01/06/20	<0.100	1.680	0.3350	0.00165	<0.00100	<0.00100	0.0149	0.0103	0.00	10.56	4319.49
	04/01/20	<0.100	0.259	0.09860	<0.00100	<0.00100	<0.00500	0.00319	<0.00300	0.00	10.22	4319.83
	10/29/20	<0.100	0.0598	0.0110	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	11.00	4319.05
	01/27/21	<0.100	<0.500	0.00222	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	11.37	4318.68
	04/07/21	0.0421	<0.500	0.0101	<0.00100	<0.00100	<0.00500	<0.00100	0.000772	0.00	10.80	4319.25
	07/15/21	<0.100	<0.500	0.00301	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	11.13	4318.92
	10/06/2021	<0.100	1	0.237	0.00154	<0.00100	<0.00500	0.00752	0.0413	0.00	11.32	4318.73
MW-5	03/15/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	8.65	4325.22
MW-6	03/15/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	8.50	4325.62
MW-7	03/15/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	8.51	4325.45
MW-8	03/15/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	9.07	4325.81
	09/04/19	<0.100	0.33	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	10.31	4324.57
	01/06/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	10.16	4324.72
	03/31/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	9.96	4324.92
	10/29/20	<0.0247	<0.100	<0.00100	<0.00100	<0.00001	0.00101	<0.00100	<0.00300	0.00	10.96	4323.92
	01/27/21	<0.100	<0.500	0.000136	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	11.04	4323.84
	04/08/21	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.49	4324.39
	07/13/21	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.90	4323.98
	10/07/2021	<0.100	<0.500	<0.00100	<0.00100	<0.00100	0.0171	<0.00100	<0.00300	0.00	11.26	4323.62
MW-9	03/15/19	0.0379	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	8.95	4325.62
MW-10	03/12/19	13.2	33.1	9.32	1.12	<0.005	0.221	4.65	7.72	0.09	10.10	4324.43
	03/15/19	11.8	78.0	14.5	2.32	<0.005	0.394	25.1	18.1	0.00	10.00	4324.46
	03/20/19	13.3	68.7	13.8	2.13	<0.100	0.598	17.9	16.2	0.00	9.98	4324.48
	04/08/21	10.8	23.1	0.0662	0.119	<0.050	0.177	0.710	6.88	0.00	12.10	4322.36
	10/08/2021	10.8	23.1	0.0662	0.309	<0.0500	0.153	1.64	4.36	0.01	12.86	4321.71

Table 1
Monitoring Well Data and Analytical Results
Triple Stop Chevron
1034 West Gentile Street, Layton, Utah
Release NUB; Facility ID 3000500
Terracon Project 61197153

Sample ID	DATE	TPH-DRO (mg/L)	TPH-GRO (mg/L)	BENZENE (mg/L)	ETHYL-BENZENE (mg/L)	MTBE (mg/L)	NAPH-THALENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	FPT (feet)	DTW (feet)	Groundwater Elevation (feet)
DERR ISL		1	1	0.005	0.7	0.2	0.7	1	10			
DERR Tier 1		10	10	0.30	4	0.2	0.7	3	10			
MW-11	03/15/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	9.16	4325.53
MW-12	02/27/19	<1.0	4.54	0.32	0.019	<0.005	<0.012	0.125	0.069	NM	NM	--
	03/15/19	<1.0	4.92	0.1580	0.012	<0.005	<0.012	0.082	0.044	0.00	7.46	4325.03
	09/05/19	0.0562	2.11	0.0746	0.00274	<0.00100	<0.00500	0.00673	0.0107	0.00	10.57	4321.92
	01/08/20	<0.100	0.193	0.0076	<0.00100	<0.00100	<0.00500	<0.00100	0.00110	0.00	9.49	4323.00
	03/31/20	<0.100	0.159	0.0036	<0.00100	<0.00100	<0.00500	<0.00100	0.00172	0.00	9.23	4323.26
MW-13	02/27/19	4.4	19.0	4.980	1.06	<0.200	<0.500	4.57	8.38	NM	NM	4324.82
	03/15/19	2.1	10.7	2.29	0.464	<0.005	0.039	1.27	3.06	0.00	8.00	4324.82
	03/20/18	2.9	17.0	3.020	0.635	<0.005	0.045	1.97	4.42	0.00	8.01	4324.81
	09/05/19	2.5	57.3	2.530	1.53	<0.00100	0.171	1.47	11.50	0.00	9.88	4322.94
	01/08/20	0.655	4.09	0.225	0.133	<0.100	0.0298	0.0127	0.756	0.00	10.02	4322.80
	03/31/20	1.270	4.38	0.402	0.220	<0.0100	0.0383	0.0317	1.340	0.00	9.78	4323.04
	10/29/20	0.762	4.19	0.532	0.191	<0.001	0.0688	0.0573	0.876	0.00	10.53	4322.29
	01/27/21	0.146	<0.500	0.00343	0.00280	<0.001	0.00195	<0.00100	0.00209	0.00	10.56	4322.26
	04/08/21	0.267	0.272	0.00200	0.00305	<0.00100	<0.00500	<0.00100	0.000462	0.00	10.12	4322.70
	07/13/21	1.6	8.52	0.00349	0.524	<0.00100	0.0881	0.091	3.88	0.00	10.39	4322.43
	10/08/2021	3.35	9.96	0.0144	0.771	<0.0500	0.146	0.214	4.83	0.00	10.81	4322.01
MW-14	02/27/19	3.3	13.5	2.090	0.511	<0.005	0.046	0.804	3.44	NM	NM	--
	03/15/19	2.5	9.21	1.16	0.365	<0.005	0.039	0.765	2.56	0.00	8.77	4324.09
	03/20/19	2.1	11.0	2.380	0.341	<0.005	0.034	1.44	2.43	0.00	8.77	4324.09
	09/05/19	0.415	6.3	0.798	0.082	<0.00100	0.0204	0.485	0.428	0.00	10.22	4322.64
	01/08/20	<0.100	1.02	0.018	0.00143	<0.00100	<0.00500	0.000857	0.00136	0.00	10.30	4322.56
	03/31/20	<0.100	0.811	0.032	0.00282	<0.00100	<0.00100	0.00119	0.00383	0.00	10.05	4322.81
	10/29/20	<0.247	0.375	0.000960	0.00019	<0.0001	<0.0050	<0.00100	0.00048	0.00	11.01	4321.85
	01/27/21	<0.100	<0.500	0.000308	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	11.25	4321.61
	04/08/21	0.0247	0.292	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.71	4310.90
	07/13/21	0.0601	0.596	<0.00100	<0.00100	<0.00100	0.00242	<0.00100	<0.00300	0.00	10.90	4321.96
	10/08/2021	<0.100	<0.500	0.000383	<0.00100	<0.00100	0.013	<0.00100	<0.00300	0.00	11.24	4321.62
MW-15	02/27/19	<1.0	3.28	0.3180	<0.012	<0.005	<0.012	<0.012	0.031	NM	NM	--
	03/15/19	<1.0	0.334	0.038	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	9.43	4323.99
	09/05/19	<0.100	0.217	0.0018	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.56	4322.86
	01/08/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.60	4322.82
	03/31/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.37	4323.05
MW-16	03/15/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	10.10	4318.11
	09/04/19	<0.100	0.323	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.30	4317.91
	01/06/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	11.02	4317.19
	04/01/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.71	4317.50
MW-17	03/15/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	9.62	4318.29
MW-18	03/15/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	9.12	4318.62
	09/04/19	<0.100	0.324	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	9.45	4318.29
	01/06/20	<0.100	<0.500	0.00159	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.01	4317.73
	04/01/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	9.71	4318.03
	04/07/21	0.0531	0.150	0.0181	<0.00100	0.000169	<0.00100	<0.00100	0.00117	0.00	10.26	4317.48
	07/15/21	<0.100	<0.500	0.00731	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.26	4317.48
	10/06/2021	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.51	4317.23
MW-19	03/15/19	<1.0	6.29	4.23	0.423	<0.005	0.040	0.085	0.333	0.00	8.05	4319.07
	09/04/19	1.47	10.30	8.130	0.81	<0.00100	0.0548	0.0589	0.0589	0.00	8.46	4318.66
	09/27/19	1.68	12.50	9.700	0.746	<0.0400	0.0862	0.0464	1.51	0.00	8.61	4318.51
	01/07/20	0.198	4.56	2.140	0.0558	<0.00100	0.00401	0.00165	<0.00300	0.00	8.83	4318.29
	04/01/20	0.559	14.20	4.580	0.3720	<0.00500	<0.250	<0.0500	0.0569	0.00	8.59	4318.53
	10/29/20	0.371	5.59	1.190	0.2240	<0.005	<0.05	0.08530	0.517	0.00	9.23	4317.89
	01/27/21	0.313	1.47	0.340	0.156	<0.0100	<0.0500	0.00886	0.00742	0.00	9.66	4317.46
	04/07/21	2.04	36.4	3.98	0.998	<0.00500	0.0521	4.06	4.22	0.00	9.10	4318.02
	07/14/21	1.09	48.3	5.31	0.938	<0.0500	0.0731	0.526	3.18	0.00	9.24	4317.88

Table 1
Monitoring Well Data and Analytical Results
Triple Stop Chevron
1034 West Gentile Street, Layton, Utah
Release NUB; Facility ID 3000500
Terracon Project 61197153

Sample ID	DATE	TPH-DRO	TPH-GRO	BENZENE	ETHYL-BENZENE	MTBE	NAPH-THALENE	TOLUENE	XYLENES	FPT	DTW	Groundwater Elevation
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(feet)	(feet)	(feet)
DERR ISL		1	1	0.005	0.7	0.2	0.7	1	10			
DERR Tier 1		10	10	0.30	4	0.2	0.7	3	10			
	10/06/2021	0.861	11.6	3.04	0.593	<0.0100	0.0762	0.319	1.5	0.00	9.48	4317.64
MW -20	03/15/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	8.75	4318.61
	04/07/21	0.0686	3.36	1.43	0.0210	<0.0100	0.00222	0.0127	0.0169	0.00	9.72	4317.64
	07/14/21	0.268	15.9	1.82	0.161	<0.0200	0.0359	0.136	0.0888	0.00	9.76	4317.60
	10/06/2021	0.117	0.598	0.132	0.0868	<0.00100	0.00653	0.00223	0.00159	0.00	10.02	4317.34
MW -21	03/15/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	9.55	4318.77
	09/04/19	<0.100	0.361	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	9.73	4318.59
	01/06/20	0.19	<0.500	0.00	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.35	4317.97
	04/01/20	<0.100	<0.500	0.01	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.09	4318.23
MW -22	02/27/19	6.7	41.4	6.32	2.12	<0.200	<0.500	10.4	16.9	NM	NM	--
	03/20/19	1.1	2.35	0.42	0.116	<0.005	0.016	0.182	0.665	0.00	11.60	4322.30
	09/04/19	1.08	7.40	0.25	0.180	<0.00100	0.0286	0.462	1.280	0.00	12.70	4321.20
	01/07/20	1.85	29.50	6.81	1.11	<0.00100	0.144	1.06	2.06	0.00	12.83	4321.07
	03/31/20	1.45	15.90	3.62	0.495	<0.100	<0.500	1.58	2.08	0.00	12.59	4321.31
	10/29/20	0.394	3.09	0.12	0.136	<0.0001	0.02	0.0212	0.366	0.00	13.29	4320.61
	04/08/21	0.664	0.997	0.00627	0.0408	<0.00100	0.00714	0.0212	0.134	0.00	13.08	4320.82
	07/16/21	0.207	1.46	0.00458	0.0328	<0.00100	0.00335	0.00405	0.0429	0.00	13.35	4320.55
	10/07/2021	0.0847	0.342	0.00327	0.00528	<0.00100	0.00205	0.00103	0.00749	0.00	13.58	4320.32
MW -23	02/27/19	5.2	21.5	5.850	1.09	<0.005	<0.012	5.96	8.56	NM	NM	--
	03/20/19	<1.0	1.02	0.184	0.048	<0.005	<0.012	0.231	0.270	0.00	11.90	4321.77
	09/26/19	0.917	1.96	0.728	0.143	<0.00200	0.0668	0.417	0.382	0.00	11.92	4321.75
	01/08/20	0.311	6.26	1.180	0.188	<0.00100	<0.00100	0.0602	0.412	0.00	13.02	4320.65
	03/31/20	0.363	8.90	2.24	0.177	<0.0250	<0.125	0.971	0.538	0.00	12.75	4320.92
	10/29/20	<0.100	0.404	0.0151	0.0232	<0.0001	0.00374	0.00058	0.00752	0.00	13.36	4320.31
	01/28/21	<0.100	<0.500	0.000372	0.0014	<0.00100	<0.00500	<0.00100	0.000610	0.00	13.72	4319.95
	04/08/21	0.260	0.437	0.00889	0.0266	<0.00100	0.00190	0.000575	0.0450	0.00	13.23	4320.44
	07/16/21	0.453	15.7	0.0359	0.224	<0.0250	<0.125	<0.0250	0.565	0.00	13.45	4320.22
	10/07/2021	0.0533	0.116	0.00368	0.0272	<0.00100	0.00168	<0.00100	0.00234	0.00	13.69	4319.98
MW -24	03/20/19	4.9	18.6	5.420	0.942	<0.005	0.132	0.233	7.11	0.00	9.98	4323.34
	09/04/19	0.0394	0.390	0.005	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	11.61	4321.71
	01/07/20	1.35	20.3	7.860	1.27	<0.00100	0.0705	0.0304	1.18	0.00	11.66	4321.66
	03/31/20	1.10	<12.5	0.853	0.258	<0.0250	0.0309	0.0161	0.754	0.00	11.42	4321.49
	10/29/20	2.6	36.6	4.320	0.506	<0.002	0.0942	0.32	5.660	0.00	12.22	4321.10
	02/04/21	4.2	19.6	2.940	0.717	<0.0250	0.120	0.241	4.28	0.00	12.35	4320.97
	04/08/21	5.96	7.15	0.374	0.0891	<0.0250	0.0379	0.0152	0.445	0.00	11.98	4321.34
	07/13/21	1.07	16.8	0.569	0.206	<0.0250	0.028	0.0533	0.708	0.00	12.22	4321.10
	10/7/2021	—	3.69	0.0438	0.548	<0.0250	0.0649	0.0212	1.7	0.00	12.51	4320.81
MW -25	03/20/19	1.5	5.53	1.25	0.298	<0.005	0.028	0.243	2.06	0.00	9.01	4323.90
	09/04/19	<0.100	0.351	0.000668	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.88	4322.03
	01/07/20	<0.100	<0.500	0.00182	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.94	4321.97
	03/31/20	<0.100	<0.500	0.00136	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.68	4322.23
	04/08/21	0.0501	<0.500	0.000130	0.00348	<0.00100	<0.00500	0.000415	0.00809	0.00	11.21	4321.70
MW -26	03/19/19	<1.0	0.991	0.127	<0.012	<0.005	<0.012	0.012	0.033	0.00	8.31	4324.36
MW -27	03/20/19	<1.0	1.44	0.2810	0.056	<0.005	<0.012	0.618	0.334	0.00	13.37	4319.95
MW -28	03/20/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	NM	NM	--
MW -29	03/20/19	<1.0	<0.125	0.1200	<0.012	<0.005	<0.012	<0.012	<0.012	NM	NM	--
MW -30	03/20/19	<1.0	0.978	0.8200	0.076	<0.005	<0.012	0.014	0.068	NM	NM	--
	09/04/19	0.0784	0.516	0.1390	0.0584	<0.00100	<0.0050	<0.00100	<0.00100	0.00	8.88	4317.98
	01/07/20	<0.100	<0.500	0.0098	<0.00100	<0.00100	<0.0050	<0.00100	<0.00300	0.00	9.28	4317.58
	04/01/20	<0.100	<0.500	0.00348	<0.00100	<0.00100	<0.0050	<0.00100	<0.00300	0.00	9.03	4317.83
	10/29/20	<0.0247	0.0932	0.02040	<0.00100	<0.0001	<0.0050	<0.00100	<0.00300	0.00	9.68	4317.18
	01/27/21	<0.100	<0.500	0.000131	<0.00100	<0.00100	<0.00500	<0.00100	0.003000	0.00	10.15	4316.71
	04/07/21	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	0.003000	0.00	9.62	4317.24
	07/15/21	0.0295	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	9.71	4317.15

Table 1
Monitoring Well Data and Analytical Results
Triple Stop Chevron
1034 West Gentile Street, Layton, Utah
Release NUB; Facility ID 3000500
Terracon Project 61197153

Sample ID	DATE	TPH-DRO (mg/L)	TPH-GRO (mg/L)	BENZENE (mg/L)	ETHYL-BENZENE (mg/L)	MTBE (mg/L)	NAPH-THALENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	FPT (feet)	DTW (feet)	Groundwater Elevation (feet)
DERR ISL		1	1	0.005	0.7	0.2	0.7	1	10			
DERR Tier 1		10	10	0.30	4	0.2	0.7	3	10			
MW -31	10/06/2021	<0.100	<0.500	0.0253	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	9.93	4316.93
MW -31	03/27/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	8.36	4317.50
MW -31	09/04/19	<0.100	0.34	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	8.85	4317.01
MW -31	01/06/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	9.42	4316.44
MW -31	04/01/20	<0.100	0.134	0.0342	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	9.13	4316.73
MW -31	10/29/20	<0.02	0.385	0.3850	<0.00100	<0.0001	<0.00100	<0.00100	<0.00100	0.00	9.70	4316.16
MW -31	01/27/21	<0.100	0.836	0.2480	0.00355	<0.00100	<0.00500	<0.00100	0.000244	0.00	10.23	4315.63
MW -31	04/07/21	0.0609	1.030	0.3540	0.000428	0.000123	<0.00500	<0.00100	0.000794	0.00	9.74	4316.12
MW -31	07/14/21	0.0297	0.709	0.0260	0.00074	0.000248	<0.00500	<0.00100	0.00146	0.00	9.66	4316.20
MW -31	10/04/2021	<0.100	<0.500	0.00126	0.00148	0.00021	0.00195	<0.00100	0.000354	0.00	9.87	4315.99
MW -32	03/27/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	8.74	4317.15
MW -32	01/27/21	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.61	4315.28
MW -32	04/07/21	0.0383	<0.500	0.000110	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.15	4315.74
MW -32	07/14/21	<0.100	<0.500	<0.00100	<0.00100	0.000175	<0.00500	<0.00100	0.00037	0.00	10.04	4315.85
MW -32	10/04/2021	<0.100	<0.500	<0.00100	<0.00100	0.000194	<0.00500	<0.00100	<0.00300	0.00	10.23	4315.66
MW -33	03/27/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	0.00	8.06	4324.93
MW -34	03/27/19	<1.0	<0.125	<0.005	<0.012	<0.005	<0.012	<0.012	<0.012	NM	NM	-
MW -34	09/04/19	<0.100	0.336	0.00253	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.48	4321.30
MW -34	01/07/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.45	4321.33
MW -34	03/31/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.19	4321.59
MW -35	04/02/19	<1.0	1.84	0.9270	<0.012	<0.005	0.017	0.078	0.258	NM	NM	--
MW -35	09/04/19	0.262	5.81	1.5200	0.0931	<0.00100	0.0121	0.140	0.558	0.00	13.37	4318.82
MW -35	01/08/20	0.161	4.70	1.0600	0.0735	<0.00100	0.0255	0.199	0.203	0.00	13.72	4318.47
MW -35	03/31/20	0.0710	0.62	0.0789	0.0292	<0.00100	0.0125	0.00267	0.0673	0.00	13.44	4318.75
MW -35	07/16/21	<0.100	<0.500	0.0000966	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300			
MW -35	10/07/2021	<0.100	<0.500	0.000434	0.00117	<0.00100	0.00385	<0.00100	0.000651	0.00	14.00	4318.19
MW -36	04/02/19	<1.0	<0.125	0.026	<0.012	<0.005	<0.012	<0.012	<0.012	NM	NM	-
MW -36	09/04/19	<0.100	1.31	0.193	<0.00100	<0.00100	<0.00500	<0.00100	0.00352	0.00	11.60	4321.66
MW -36	01/07/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	11.74	4321.52
MW -36	03/31/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	11.50	4321.76
MW -37	04/02/19	<1.0	<0.125	0.0860	<0.012	<0.005	<0.012	<0.012	<0.012	NM	NM	-
MW -37	09/04/19	<0.105	0.334	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	9.58	4316.90
MW -37	01/06/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	10.10	4316.38
MW -37	04/01/20	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	9.84	4316.64
MW -37	10/29/20	<0.0329	<0.100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00	10.36	4316.12
MW -37	01/27/21	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.79	4315.69
MW -37	04/07/21	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.40	4316.08
MW -37	07/14/21	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.37	4316.11
MW -37	10/04/2021	<0.100	<0.500	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.53	4315.95
MW -38	07/15/21	<0.100	<0.500	0.000262	<0.00100	0.000402	<0.00500	<0.00100	0.000332	0.00	10.32	4315.53
MW -38	10/04/2021	<0.100	<0.500	<0.00100	<0.00100	0.000765	<0.00500	<0.00100	0.000397	0.00	10.55	4315.30
MW -39	07/15/21	<0.100	<0.500	0.000285	<0.00100	<0.00100	<0.00500	<0.00100	<0.00300	0.00	10.20	4315.29
MW -39	10/04/2021	<0.100	<0.500	<0.00100	<0.00100	0.000286	<0.00500	<0.00100	<0.00300	0.00	10.46	4315.03
MW -40	10/07/2021	0.0794	1.11	0.191	0.064	<0.00100	0.0134	0.023	0.245	0.00	9.35	4318.12
MW -41	10/07/2021	<0.200	0.135	0.0346	0.00186	<0.00100	0.0283	0.000321	0.00284	0.00	11.15	4317.68
MW -42	10/07/2021	0.61	13.3	6.57	0.576	<0.00100	0.0593	1.06	1.62	0.00	9.90	4316.94
EW -3	03/31/20	12.2	82.8	4.14	1.87	<0.0500	0.458	4.290	23.600	0.00	10.43	4323.67
EW -4	04/08/21	8.00	20.4	0.0123	0.346	<0.0500	0.0777	0.271	2.11	0.00	11.04	4323.06
EW -4	04/08/21	7.38	38.9	<0.100	0.462	<0.100	0.181	0.129	6.860	0.00	11.74	-
RW -1	09/18/19	5.81	54.3	1.21	1.22	<0.100	0.246	3.53	10.6	0.00	NM	-
RW -1	04/02/20	2.49	14.4	<0.100	0.36	<0.100	<0.500	0.644	3.14	0.00	NM	-
RW -2	09/18/19	6.23	143	11.60	2.20	<0.500	0.303	18.5	16.7	0.00	NM	-
RW -2	04/02/20	3.81	79.7	4.08	1.51	<0.0500	0.148	13.2	12.9	0.00	NM	-
RW -2	04/08/21	13.7	86.3	2.43	1.16	<0.100	0.384	9.98	17.4	0.00	NM	-

Table 1
Monitoring Well Data and Analytical Results
Triple Stop Chevron
1034 West Gentile Street, Layton, Utah
Release NUB; Facility ID 3000500
Terracon Project 61197153

Sample ID	DATE	TPH-DRO	TPH-GRO	BENZENE	ETHYL-BENZENE	MTBE	NAPH-THALENE	TOLUENE	XYLENES	FPT	DTW	Groundwater Elevation
	MM/DD/YY	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(feet)	(feet)	(feet)
DERR ISL		1	1	0.005	0.7	0.2	0.7	1	10			
DERR Tier 1		10	10	0.30	4	0.2	0.7	3	10			
RW-2	07/13/21	3.52	76.2	0.796	0.422	<0.100	0.199	4.49	4.38	0.00	NM	-
	10/08/2021	6.57	31.2	0.982	1.04	<0.100	0.363	7.04	7.95			

Notes:

* The sample labels for MW-3 & MW-4 were reversed on 3/15/19. Resampled on 3/19/19.

TPH -GRO = Total Petroleum Hydrocarbons as Gasoline

TPH--DRO = Total Petroleum Hydrocarbons as Diesel

DTW = Depth to groundwater

FPT = Free Product Thickness

DERR = Utah Division of Environmental Response and Remediation

ISL = Initial Screening Level

Tier 1 = Tier 1 Screening Level

mg/l = milligram/liter

Table 3
Groundwater Natural Attenuation Parameters
Table 2
Triple Stop Chevron
1034 West Gentile Street, Layton, Utah
Release NUB; Facility ID 3000500
Terracon Project 61197153

Analytical Method						3500Fe B-2011		6010B		6010B		9056A		9056A		RSK175		RSK175		RSK175		
Analyte		Temp	D.O.	Cond.	pH	ORP	FERROUS IRON		IRON, DISSOLVED		MANGANESE, DISSOLVED		NITRATE		SULFATE		METHANE		ETHANE		ETHENE	
Units		°C	mg/l	µS/cm	-	mV	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Client Sample ID	Date Collected						Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
MW-1	07/15/2021	15.5	0.28	1734	7.11	-151	15	T8	16.6		0.744		<0.100		7		4.48		<0.0130		<0.0130	
	10/06/2021	16.8	0.31	1986	7.44	-140.9	12	T8	<0.100		0.73		<0.0100		6.26		NA		NA		NA	
MW-2	7/15/2021	16.4	0.35	1344	7.07	-95.1																
	10/06/2021	18.1	0.43	2042	7.07	-127																
MW-4	7/15/2021	16	0.33	1419	7.2	-124.8																
	10/06/2021	16.9	0.29	1817	7.38	-119.5																
MW-8	07/13/2021	18.6	0.87	1890	7.14	82.4	<0.0500	T8	<0.100		<0.0100		6.45		49.8		<0.0100		<0.0130		<0.0130	
MW-13	07/13/2021	21.9	0.34	973	6.92	-114.1	4.97	T8	4.85		0.367		<0.100		19.6		1.89		<0.0130		<0.0130	
	10/8/2021	20.7	0.22	1236	6.8	-150.1																
MW-14	07/13/2021	22.9	0.29	1552	7.08	-46.2	0.14	T8	0.635		1.15		9.26		42.3		<0.0100		<0.0130		<0.0130	
MW-18	7/15/2021	20.7	0.30	1668	7.19	4.8																
	10/06/2021	21.0	0.30	1794	7.03	22.9																
MW-19	07/14/2021	18.6	0.24	2134	7.21	-155.3	8.22	T8	8.45		1.09		<0.100		9.62		7.49		<0.0130		<0.0130	
	10/06/2021	20.1	0.22	1974	7.18	-163.2	9.78	T8	<0.100		0.942		<0.0100		10.1		NA		NA		NA	
MW-20	07/14/2021	20	0.24	1831	7.04	-38.8	0.02	J T8	0.409		2.2		0.552		30.5		0.871		<0.0130		<0.0130	
	10/06/2021	21.6	0.25	1851	6.91	-29.9	0.056	T8	<0.100		2.13		1.35		30.4		NA		NA		NA	
MW-22	7/16/2021	19.2	0.25	2404	6.96	-129.5																
MW-23	7/16/2021	18.1	0.38	2685	6.89	-126.4																
MW-24	07/13/2021	20.1	0.32	2235	7.02	-140.6	27.5	T8	29.5		0.35		<0.100		28.4		1.67		<0.0130		<0.0130	
MW-31	07/14/2021	18.1	0.24	2206	6.98	-7.8	0.146	T8	0.129		1.54		0.45		32.3		1.2		<0.0130		<0.0130	
	10/04/2021	20.6	0.33	1811	6.85	-31.3	0.465	T8	<0.100		1.31		0.0106		16.2		NA		NA		NA	
MW-32	07/14/2021	18.5	0.45	1972	6.99	35.8	<0.0500	T8	0.0313	J	0.108		0.197		24.6		0.605		<0.0130		<0.0130	
	10/04/2021	21.4	0.32	1974	6.84	23.3	0.049	J T8	<0.100		0.125		0.0213		14.6		NA		NA		NA	
MW-37	07/14/2021	20.3	0.55	1913	7.05	50.7	<0.0500	T8	<0.100		0.0338		1.7		25.4		<0.0100		<0.0130		<0.0130	
	10/04/2021	22.2	0.45	1691	6.94	36.1	<0.0500	T8	<0.100		0.0133		1.11		42.2		NA		NA		NA	
MW-38	10/04/2021	21	0.34	1942	6.97	-54.8																
MW-39	10/04/2021	21.3	0.37	1699	6.84	87.8																
MW-40	10/7/2021	17.1	0.30	1646	7.18	-195.7																
MW-41	10/7/2021	16.5	0.40	1610	7.20	-197.2																
MW-42	10/7/2021	21.0	0.23	2394	7.4	-189.4																
RW-2	07/13/2021	26.4	0.20	2019	7.08	-154.4	15	T8	15.1		0.252		<0.100		17.1		1.77		<0.0130		<0.0130	
	10/8/2021	21.7	0.24	1550	6.87	-138.4																

Qualifiers: B: The same analyte is found in the associated blank.

J: The identification of the analyte is acceptable; the reported value is a

J4: The associated batch QC was outside the established quality control range for accuracy

T8: Sample(s) received past/too close to holding time expiration.

mg/l

µS/cm

mV

milligram/liter

micro siemens/centimeter

milliv olts

Table 3
Summary of Soil Analytical Data
Triple Stop Chevron
1034 West Gentile Street, Layton, Utah
Release NUB; FacilityID 3000500
Terracon Project 61197153

Method				8015		8260B		8260B		8260B		8260B		8260B		8260B			
Analyte				TPH (GC/FID) HIGH FRACTION		TPH (GC/MS) LOW FRACTION		BENZENE		ETHYLBENZENE		METHYL TERT-BUTYL ETHER		NAPHTHALENE		TOLUENE		XYLEMES, TOTAL	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
DERR ISL				500		150		0.2		5		51		9		142			
DERR Tier 1				5000		1500		0.9		23		51		25		142			
Lab Sample ID	Client Sample ID	Date Collected	Depth (feet)	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
L1332099-01	HRSC1 S-1	03/27/2021	9.5-10	3.29	J	<0.535		0.00255		0.000852	J			<0.00535		0.00509	J	0.00498	B
L1332099-02	HRSC1 S-2	03/27/2021	14-15	762		7760		2.85		97.3				28.6		212		898	
L1332099-03	HRSC1 S-3	03/27/2021	19.5-20	<4.60		<0.575		0.00225		0.00137				<0.00575		0.0052	J	0.00934	
L1332099-04	HRSC2 S-1	03/27/2021	12.5	587		<1320		<2.63		<2.63				<13.2		<13.2		33.4	
L1332099-05	HRSC2 S-2	03/27/2021	17-17.5	<4.85		<0.606		0.0029		0.000998	J			<0.00606		0.00522	J	0.00586	B
L1371653-01	AS01SS-01@10'	06/24/2021	10	2.86		J	<0.542	0.00358		0.00141		<0.00108		<0.00542		0.00673		0.01	
L1371653-02	AS01SS-02@13'	06/24/2021	13	35.5		1.07		0.00333		0.00241		<0.00115		0.118		0.00517	J	0.109	
L1371653-03	AS01SS-03@19'	06/24/2021	19	<4.68		<0.585		0.00207		0.000779	J	<0.00117		<0.00585		0.00401	J	0.0048	
L1371653-04	AS02SS-05@11.5'	06/24/2021	11.5	4610		2900		1.52		29.1		<0.623		17.1		64.9		309	
L1371653-05	AS02SS-06@14'	06/24/2021	14	1.59	J	0.554	J	0.0027		0.00345		<0.00117		0.0506		0.00687		0.0931	
L1371653-06	AS02SS-07@19'	06/24/2021	19	1.39	J	<0.595		0.00497	V3	0.00259	V3	<0.00119		<0.00595		0.00979	V3	0.00948	V3
L1371655-01	MW-39SS@9.5-10'	06/24/2021	9.5-10	<4.65		<0.582		0.00219	V3	<0.00116		<0.00116		<0.00582		0.00532	J V3	0.00476	V3
L1371655-02	MW-38SS@9-9.5'	06/24/2021	9-9.5	<4.74		<0.592		0.00288		0.00103	J	<0.00118		<0.00592		0.00528	J	0.00563	
L1415181-01	MW-40 (8.5)	10/05/2021	8.5	2.7		J	<0.584	0.00411		0.00154		<0.00117		<0.00584		0.0075		0.00708	
L1415181-02	MW-40 (9.5)	10/05/2021	9.5	<4.85		<0.607		0.00578		0.00336		<0.00121		<0.00607		0.00615	J4	0.0161	
L1415181-03	MW-40 (12)	10/05/2021	12	<4.96		<0.620		0.00341		0.00115	J	<0.00124		<0.00620		0.00564	J	0.00529	
L1415181-05	MW-41 (10)	10/05/2021	10	2.55	J	<0.577		0.00297		0.00102	J	<0.00115		<0.00577		0.00563	J	0.00546	
L1415181-06	MW-41 (11.5)	10/05/2021	11.5	2.39	J	<0.616		0.00298		0.000976	J	<0.00123		<0.00616		0.00544	J J4	0.00605	
L1415181-07	MW-41 (13)	10/05/2021	13	2.91	J	<0.589		0.00354		0.00101	J	<0.00118		<0.00589		0.00498	J	0.00564	
L1415181-08	MW-42 (9)	10/05/2021	9	3.68	J	<0.577		0.00231		0.000787	J	<0.00115		<0.00577		0.00475	J	0.00454	
L1415181-09	MW-42 (13)	10/05/2021	13	2.38	J	<0.595		0.0077		0.00388		<0.00119		<0.00595		0.00867	J4	0.0183	
L1415181-10	MW-42 (15)	10/05/2021	15	3.49	J	<0.608		0.00496		0.00114	J	<0.00122		<0.00608		0.00494	J J4	0.00417	

Qualifiers: B: The same analyte is found in the associated blank. J: The identification of the analyte is acceptable; the reported value is an estimate.

DERR State of Utah Division of Environmental Response and Remediation

ISL Initial Screening Level

Tier 1 Tier 1 Screening Level

mg/kg milligram/kilogram

APPENDIX C

Boring Logs

WELL LOG NO. MW-40

Page 1 of 1

PROJECT: Triple Stop Chevron		CLIENT: Triple Stop Chevron													
SITE: 1034 West Gentile Street Layton, Utah															
GRAPHIC LOG	LOCATION See Exhibit 2 Latitude: 41.059670° Longitude: -111.986731°				INSTALLATION DETAILS		DEPTH (ft)	WATER LEVEL OBSERVATIONS							
DEPTH	MATERIAL DESCRIPTION				Well Completion: Surface Mount		SAMPLE TYPE	RECOVERY (%)							
0.5	FILL - GRASS SURFACE & TOPSOIL , trace gravel, low plasticity, reddish dark brown, moist LEAN CLAY WITH GRAVEL (CL) , reddish dark brown, moist, 1: 2 inch white gravel layer.				Well completed with traffic-rated well box and 7-inch well cover. Hydrated bentonite, 1'-3'		78	0.9 1.0							
2.5	CLAYEY SILT , tan, moist				16/30 Silica Sand Pack, 3'-20'			0.9							
4.0	WELL GRADED SAND WITH SILT (SW-SM) , light yellowish brown, moist				5			0.8							
7.5	SILTY SAND (SM) , trace gravel, brown to trace black, moist, dense				83			1.8 81.6							
10.5	WELL GRADED SAND WITH SILT (SW-SM) , light yellowish brown, wet, medium dense, 12.5-14': Free water				10			22.1							
14.0	12.5-14': Free water				100			11.3 53.2 8.4							
14.5	SILTY CLAY (CL) , low to medium plasticity, light yellowish brown, wet, soft to medium stiff WELL GRADED SAND WITH SILT (SW-SM) , light yellowish brown, wet, medium dense				15			9.2							
16.0	SILTY CLAY (CL) , light brown, wet, medium stiff				100			6.1							
18.0	COARSE SAND (SW) , light yellowish brown, wet, medium dense				15			2.3 5.3 2.1							
19.5	SILTY CLAY (CL) , light brown, wet, medium stiff				20			3.7							
	Boring Terminated at 20 Feet														
The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.															
Advancement Method: Direct Push		Notes: MW-40 (8.5'), 1132 MW-40 (9.5'), 1134 MW-40 (12'), 1140													
Abandonment Method:															
WATER LEVEL OBSERVATIONS		Well Started: 10-05-2021 Well Completed: 10-05-2021 Drill Rig: Geoprobe Driller: DPS Project No.: 61197153 Exhibit: C-1													
GW Encountered While Drilling															
Static Water															

WELL LOG NO. MW-41

Page 1 of 1

PROJECT: Triple Stop Chevron		CLIENT: Triple Stop Chevron									
SITE: 1034 West Gentile Street Layton, Utah											
GRAPHIC LOG	LOCATION See Exhibit 2 Latitude: 41.059462° Longitude: -111.986628°				INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS				
DEPTH	MATERIAL DESCRIPTION				Well Completion: Surface Mount	SAMPLE TYPE	RECOVERY (%)				
11/15/21	2.0	FILL - GRASS SURFACE & TOPSOIL , trace gravel, low plasticity, dark brown, moist				78	0.2 0.1				
	3.0	SILTY CLAY (CL) , dark brown, moist, medium stiff					0.4				
	4.5	SILTY CLAY (CL) , low to medium plasticity, light yellowish brown, moist, medium stiff									
	6.0	WELL GRADED SAND WITH SILT (SW-SM) , light yellowish brown to with some reddish black staining, moist, loose to medium dense				65	0.2 3.2 5.0				
	10.5	WELL GRADED SAND WITH SILT (SW-SM) , light yellowish brown, moist, medium dense to dense									
	18.0	WELL GRADED SAND WITH SILT (SW-SM) , light yellowish brown, wet, dense				10	0.9 1.2 1.7 7.8 3.9				
	19.0	SILTY CLAY (CL) , medium plasticity, light brown, wet, medium stiff				67	MW-41 (11.5')				
	20.0	CLAYEY SAND (SC) , nonplastic, light brown, wet, medium dense					MW-41 (10') MW-41 (13')				
	Boring Terminated at 20 Feet										
The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.											
Advancement Method: Direct Push						Notes: MW-41 (10'), 1444 MW-41 (11.5'), 1446 MW-41 (13'), 1450					
Abandonment Method:											
WATER LEVEL OBSERVATIONS		 6949 S High Tech Dr Ste 100 Midvale, UT	Well Started: 10-05-2021		Well Completed: 10-05-2021						
 GW Encountered While Drilling			Drill Rig: Geoprobe		Driller: DPS						
 Static Water			Project No.: 61197153		Exhibit: C-2						

WELL LOG NO. MW-42

Page 1 of 1

PROJECT: Triple Stop Chevron		CLIENT: Triple Stop Chevron						
SITE: 1034 West Gentile Street Layton, Utah								
GRAPHIC LOG	LOCATION See Exhibit 2 Latitude: 41.059384° Longitude: -111.986927°	INSTALLATION DETAILS			DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (%)
DEPTH	MATERIAL DESCRIPTION	Well Completion:	Surface Mount					PID (ppm)
0.8	<u>FILL - GRASS SURFACE & TOPSOIL</u> , trace gravel to cobbles, yellowish light brown, moist <u>LEAN CLAY WITH GRAVEL (CL)</u> , yellowish light brown, moist, medium dense	Well completed with traffic-rated well box and 7-inch well cover. Hydrated bentonite, 1'-3'			78		0.3 0.2	
4.0	<u>WELL GRADED SAND WITH SILT (SW-SM)</u> , yellowish brown, moist, loose	16/30 Silica Sand Pack, 3'-20'					0.1	
7.5	<u>WELL GRADED SAND WITH SILT (SW-SM)</u> , light brown to dark brown, moist, medium dense				5		0.2	
8.5	<u>WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM)</u> , light brown to dark brown, moist, medium dense				83		1.1	
11.0	<u>WELL GRADED SAND WITH SILT (SW-SM)</u> , yellowish brown, moderate odor, moist to wet, medium dense						10.6	
13.0	<u>SILTY CLAYEY SAND (SC-SM)</u> , yellowish brown to with brown seams, wet, stiff, 13': Flowing sands	2" Slotted (0.010) PVC Screen, 5'-20'						MW-42 (9')
14'	Dark brown well graded sand seam.							
15.5	<u>WELL GRADED SAND WITH SILT (SW-SM)</u> , light yellowish brown, moderate odor, wet, dense							MW-42 (13')
16.5	<u>SANDY LEAN CLAY</u> , low to medium plasticity, light brown, wet, very stiff							
17.0	<u>SANDY LEAN CLAY (CL)</u> , yellowish light brown, wet, stiff							
19.0	<u>SANDY LEAN CLAY (CL)</u> , yellowish light brown, very stiff							
20.0	Boring Terminated at 20 Feet							
The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.								
Advancement Method: Direct Push				Notes: MW-42 (9'), 945 MW-42 (13'), 958 MW-42 (15'), 1006				
Abandonment Method:								
WATER LEVEL OBSERVATIONS					Well Started: 10-05-2021	Well Completed: 10-05-2021		
GW Encountered While Drilling					Drill Rig: Geoprobe	Driller: DPS		
Static Water					Project No.: 61197153	Exhibit: C-3		

APPENDIX D
Chain of Custody and Laboratory Data Sheets



Curt Stripeika
Terracon Consultants, Inc.
6949 S High Tech Drive, Suite 100
Midvale, UT 84047
TEL: (801) 545-8500

RE: Triple Stop Chevron / 61197153 Task 9.2

Dear Curt Stripeika:

Lab Set ID: 2110068

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

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e-mail: awal@awal-labs.com

web: www.awal-labs.com

American West Analytical Laboratories received sample(s) on 10/4/2021 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: _____
Laboratory Director or designee



INORGANIC ANALYTICAL REPORT

Client: Terracon Consultants, Inc. **Contact:** Curt Stripeika
Project: Triple Stop Chevron / 61197153 Task 9.2
Lab Sample ID: 2110068-001
Client Sample ID: MW-32
Collection Date: 10/4/2021 1417h
Received Date: 10/4/2021 1717h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate (as N)	mg/L		10/6/2021 1025h	E353.2	0.0100	0.0213	

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Terracon Consultants, Inc. **Contact:** Curt Stripeika
Project: Triple Stop Chevron / 61197153 Task 9.2
Lab Sample ID: 2110068-002
Client Sample ID: MW-37
Collection Date: 10/4/2021 1526h
Received Date: 10/4/2021 1717h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate (as N)	mg/L		10/6/2021 1026h	E353.2	0.0100	1.11	

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

Report Date: 10/6/2021 Page 3 of 4

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.



INORGANIC ANALYTICAL REPORT

Client: Terracon Consultants, Inc. **Contact:** Curt Stripeika
Project: Triple Stop Chevron / 61197153 Task 9.2
Lab Sample ID: 2110068-003
Client Sample ID: MW-31
Collection Date: 10/4/2021 1620h
Received Date: 10/4/2021 1717h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate (as N)	mg/L		10/6/2021 1028h	E353.2	0.0100	0.0106	

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

American West Analytical Laboratories

Rpt Emailed:

UL

WORK ORDER Summary

Work Order: **2110068**

Page 1 of 1

Client: Terracon Consultants, Inc.

Due Date: 10/18/2021

Client ID: TER200

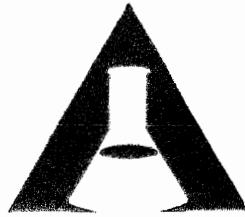
Contact: Curt Stripeika

Project: Triple Stop Chevron / 61197153 Task 9.2

QC Level: I

WO Type: Standard

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2110068-001A	MW-32	10/4/2021 1417h	10/4/2021 1717h	NO3-W-353.2	Aqueous	<input type="checkbox"/>	DF-NO3	1
2110068-002A	MW-37	10/4/2021 1526h	10/4/2021 1717h	NO3-W-353.2	Aqueous	<input type="checkbox"/>	DF-NO3	1
2110068-003A	MW-31	10/4/2021 1620h	10/4/2021 1717h	NO3-W-353.2	Aqueous	<input type="checkbox"/>	DF-NO3	1



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Client: TERRACON
 Address: 6949 S. HIGH TECH DR.
MIDVALE, UT 84047
 Contact: CURT STRIPEIKA
 Phone #: _____ Cell #: _____
 Email: CURT.STRIPEIKA@TERRACON.COM
 Project Name: TRIPLE STOP CATERPILLAR
 Project #: 61197153 TASK 9.2
 PO #: _____
 Sampler Name: Roy Mc Donald

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NITRATE	Known Hazards & Sample Comments
1	MW-32	10/4/21	1417	1	W	X	
2	MW-37	10/4/21	1526	1	WF		
3	MW-31	10/4/21	1620	1	XX		
4							
5							
6							
7							
8							
9							
10							
11							
12							

Relinquished by: Signature		Date: 10/4/21 Time: 1717	Received by: Signature		Date: 10/4/21 Time: 1717	Special Instructions:
Print Name: 		Print Name:	Print Name:			
Relinquished by: Signature		Date:	Received by: Signature		Date:	
Print Name:		Time:	Print Name:		Time:	
Relinquished by: Signature		Date:	Received by: Signature		Date:	
Print Name:		Time:	Print Name:		Time:	
Relinquished by: Signature		Date:	Received by: Signature		Date:	
Print Name:		Time:	Print Name:		Time:	
Relinquished by: Signature		Date:	Received by: Signature		Date:	
Print Name:		Time:	Print Name:		Time:	

CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

QC Level:	Turn Around Time:	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.
1 2 2+ 3 3+	1 2 3 4 5 Std	<input type="checkbox"/> Report down to the MDL <input type="checkbox"/> Include EDD: <input type="checkbox"/> Lab Filter for: <input type="checkbox"/> Field Filtered For:
For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:		
Known Hazards & Sample Comments COC Tape Was: 1 Present on Outer Package <input checked="" type="radio"/> Y <input type="radio"/> N NA 2 Unbroken on Outer Package <input checked="" type="radio"/> Y <input type="radio"/> N NA 3 Present on Sample <input checked="" type="radio"/> Y <input type="radio"/> N NA 4 Unbroken on Sample <input checked="" type="radio"/> Y <input type="radio"/> N NA		
Discrepancies Between Sample Labels and COC Record? <input checked="" type="radio"/> Y <input type="radio"/> N		

2110068

AWAL Lab Sample Set #
Page / of /

Due Date:
10/18



Curt Stripeika
Terracon Consultants, Inc.
6949 S High Tech Drive, Suite 100
Midvale, UT 84047
TEL: (801) 545-8500

RE: Triple Stop Chevron / 61197153 Task 9.2

Dear Curt Stripeika:

Lab Set ID: 2110162

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Salt Lake City, UT 84119

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American West Analytical Laboratories received sample(s) on 10/6/2021 for the analyses presented in the following report.

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All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

This is a revision to a report originally issued 10/8/2021. Information herein supersedes that of the previously issued reports. Pages 1 and 3 have been revised. The sample ID for 2110162-002A has been corrected.

Thank You,

Approved by: _____
Laboratory Director or designee



INORGANIC ANALYTICAL REPORT

Client: Terracon Consultants, Inc. **Contact:** Curt Stripeika
Project: Triple Stop Chevron / 61197153 Task 9.2
Lab Sample ID: 2110162-001
Client Sample ID: MW-1
Collection Date: 10/6/2021 1330h
Received Date: 10/6/2021 1722h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate (as N)	mg/L		10/7/2021 1657h	E353.2	0.0100	< 0.0100	

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Terracon Consultants, Inc. **Contact:** Curt Stripeika
Project: Triple Stop Chevron / 61197153 Task 9.2
Lab Sample ID: 2110162-002
Client Sample ID: MW-19
Collection Date: 10/6/2021 1453h
Received Date: 10/6/2021 1722h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate (as N)	mg/L		10/7/2021 1658h	E353.2	0.0100	< 0.0100	

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Terracon Consultants, Inc. **Contact:** Curt Stripeika
Project: Triple Stop Chevron / 61197153 Task 9.2
Lab Sample ID: 2110162-003
Client Sample ID: MW-20
Collection Date: 10/6/2021 1611h
Received Date: 10/6/2021 1722h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate (as N)	mg/L		10/7/2021 1659h	E353.2	0.0100	1.35	

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Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

American West Analytical Laboratories

Rev or Add Emailed:

UL

WORK ORDER Summary

Work Order: **2110162**

Page 1 of 1

Client: Terracon Consultants, Inc.

Due Date: 10/20/2021

Client ID: TER200

Contact: Curt Stripeika

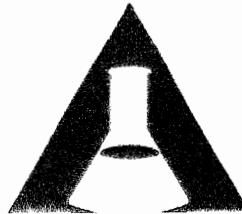
Project: Triple Stop Chevron / 61197153 Task 9.2

QC Level: I

WO Type: Standard

(DB)

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2110162-001A	MW-1	10/6/2021 1330h	10/6/2021 1722h	NO3-W-353.2	Aqueous	<input type="checkbox"/>	df - no3	1
2110162-002A	MW-19	10/6/2021 1453h	10/6/2021 1722h	NO3-W-353.2	Aqueous	<input type="checkbox"/>	df - no3	1
2110162-003A	MW-20	10/6/2021 1611h	10/6/2021 1722h	NO3-W-353.2	Aqueous	<input type="checkbox"/>	df - no3	1



American West
Analytical Laboratories

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Phone # (801) 263-8686 Toll Free # (888) 263-8686
Fax # (801) 263-8687 Email awal@awal-labs.com

www.awal-labs.com

Client: TERRACON
Address: 6949 S. HIGH TECH DR.
MIDVALE, UT 84047
Contact: CURT STRIKEKA
Phone #: _____
Email: CURT.STRIKEKA@TERRACON.COM
Project Name: TRIPLE STOP CATERPILLAR
Project #: 61197153 TASK 9.2
PO #: _____
Sampler Name: Royce Donald

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Notes
1	MW-1	10/6/21	1330	1	W	X
2	MW-19		1453	1	W	X
3	MW-20		1611	1	W	X
4						
5						
6						
7						
8						
9						
10						
11						
12						

Relinquished by: Signature	<u>Royce Donald</u>	Date: <u>10/6/21</u>	Received by: Signature	<u>Denise Brown</u>	Date: <u>10/6/21</u>	Special Instructions:
Print Name:	<u>Royce Donald</u>	Time: <u>122</u>	Print Name:	<u>Denise Brown</u>	Time: <u>122</u>	
Relinquished by: Signature		Date:	Received by: Signature		Date:	
Print Name:		Time:	Print Name:		Time:	
Relinquished by: Signature		Date:	Received by: Signature		Date:	
Print Name:		Time:	Print Name:		Time:	
Relinquished by: Signature		Date:	Received by: Signature		Date:	
Print Name:		Time:	Print Name:		Time:	

CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

QC Level:	Turn Around Time:					Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.
1	2	2+	3	3+	1 2 3 4 5 Std	
						<input type="checkbox"/> Report down to the MDL <input type="checkbox"/> Include EDD: <input type="checkbox"/> Lab Filter for: <input type="checkbox"/> Field Filtered For: For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance Other: _____
						Laboratory Use Only Samples Were: 1 Shipped or Hand delivered 2 Ambient or Chilled 3 Temperature <u>8.1</u> °C 4 Received Broken/Leaking (Improperly Sealed) Y <input checked="" type="radio"/> N <input type="radio"/> 5 Properly Preserved Y <input checked="" type="radio"/> N Checked at bench
						Known Hazards & Sample Comments COC Tape Was: 1 Present on Outer Package Y <input checked="" type="radio"/> N <input type="radio"/> NA 2 Unbroken on Outer Package Y <input checked="" type="radio"/> N <input type="radio"/> NA 3 Present on Sample Y <input checked="" type="radio"/> N <input type="radio"/> NA 4 Unbroken on Sample Y <input checked="" type="radio"/> N <input type="radio"/> NA
						Discrepancies Between Sample Labels and COC Record? Y <input checked="" type="radio"/> N

2110162
AWAL Lab Sample Set #

Page _____ of _____

Due Date: 10/20/21



Curt Stripeika
Terracon Consultants, Inc.
6949 S High Tech Drive, Suite 100
Midvale, UT 84047
TEL: (801) 545-8500

RE: Triple Stop Chevron / 61197153 Task 9.2

Dear Curt Stripeika:

Lab Set ID: 2110238

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

American West Analytical Laboratories received sample(s) on 10/8/2021 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: _____
Laboratory Director or designee



INORGANIC ANALYTICAL REPORT

Client: Terracon Consultants, Inc. **Contact:** Curt Stripeika
Project: Triple Stop Chevron / 61197153 Task 9.2
Lab Sample ID: 2110238-001
Client Sample ID: MW-13
Collection Date: 10/8/2021 905h
Received Date: 10/8/2021 1412h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate (as N)	mg/L		10/8/2021 1725h	E353.2	0.0100	< 0.0100	

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn
Laboratory Director

Jose Rocha
QA Officer

American West Analytical Laboratories

Rpt Emailed:

UL

WORK ORDER Summary

Work Order: **2110238**

Page 1 of 1

Client: Terracon Consultants, Inc.

Due Date: 10/22/2021

Client ID: TER200

Contact: Curt Stripeika

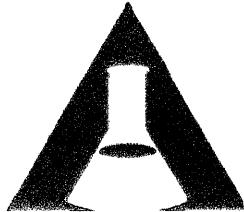
Project: Triple Stop Chevron / 61197153 Task 9.2

QC Level: I

WO Type: Standard

RZ

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2110238-001A	MW-13	10/8/2021 0905h	10/8/2021 1412h	NO3-W-353.2	Aqueous	<input type="checkbox"/>	DF-NO3	1



American West Analytical Laboratories

3440 S. 700 W. Salt Lake City, UT 84119
Phone # (801) 263-8686 Toll Free # (888) 263-8686
Fax #, (801) 263-8687 Email awal@awal-labs.com

www.awai-labs.com

Client: TERRACON
Address: 6949 S. HIGH TECH DR.
MIDVALE, UT 84047
Contact: CURT STRIPEIKA
Phone #: Cell #:
Email: CURT.STRIPEIKA@TERRACON.COM
Project Name: TRIPLE STOP COTTERON
Project #: 61197153 TASK 9.2
PO #: 9999
Sampler Name: Roy McDonald

	Sample ID:	Date Sampled	Time Sampled
1	MW-13	10/8/21	905
2			
3			
4			
5			
6			
7			
8			
9			
0			
1			
2			

CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

ANALYTICAL REPORT

February 08, 2021

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Terracon - Salt Lake City, UT

Sample Delivery Group: L1312207
Samples Received: 01/30/2021
Project Number: 61197153 TASK 9.2
Description: Triple Stop Chevron

Report To: Curt Stripeika
6949 South High Tech Drive
Midvale, UT 84047

Entire Report Reviewed By:



Chris Ward
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



				Collected by Alayna Thompson	Collected date/time 01/27/21 11:00	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617147	1	02/06/21 00:54	02/06/21 00:54	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG16154810	1	02/02/21 09:43	02/02/21 20:50	WCR	Mt. Juliet, TN
MW-33 L1312207-02 GW				Collected by Alayna Thompson	Collected date/time 01/27/21 11:10	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1614718	1	02/01/21 22:33	02/01/21 22:33	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/04/21 01:30	DMG	Mt. Juliet, TN
MW-31 L1312207-03 GW				Collected by Alayna Thompson	Collected date/time 01/27/21 14:15	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1614718	1	02/01/21 22:55	02/01/21 22:55	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617464	10	02/06/21 14:16	02/06/21 14:16	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/03/21 17:13	DMG	Mt. Juliet, TN
MW-19 L1312207-04 GW				Collected by Alayna Thompson	Collected date/time 01/27/21 15:40	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617464	10	02/06/21 14:38	02/06/21 14:38	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/03/21 17:38	DMG	Mt. Juliet, TN
MW-08 L1312207-05 GW				Collected by Alayna Thompson	Collected date/time 01/27/21 10:00	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1614718	1	02/01/21 23:16	02/01/21 23:16	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617147	1	02/06/21 07:24	02/06/21 07:24	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/03/21 18:04	DMG	Mt. Juliet, TN
MW-14 L1312207-06 GW				Collected by Alayna Thompson	Collected date/time 01/27/21 11:45	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1614718	1	02/01/21 23:38	02/01/21 23:38	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/03/21 18:30	DMG	Mt. Juliet, TN
MW-37 L1312207-07 GW				Collected by Alayna Thompson	Collected date/time 01/27/21 13:30	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617147	1	02/06/21 07:45	02/06/21 07:45	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/03/21 19:02	DMG	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



				Collected by Alayna Thompson	Collected date/time 01/27/21 15:00	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617147	1	02/06/21 08:07	02/06/21 08:07	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/03/21 19:28	DMG	Mt. Juliet, TN
				Collected by Alayna Thompson	Collected date/time 01/28/21 10:25	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617147	1	02/06/21 08:29	02/06/21 08:29	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/03/21 19:54	DMG	Mt. Juliet, TN
				Collected by Alayna Thompson	Collected date/time 01/28/21 10:30	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617147	1	02/06/21 08:50	02/06/21 08:50	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/03/21 20:20	DMG	Mt. Juliet, TN
				Collected by Alayna Thompson	Collected date/time 01/27/21 12:30	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617147	1	02/06/21 09:12	02/06/21 09:12	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/03/21 20:46	DMG	Mt. Juliet, TN
				Collected by Alayna Thompson	Collected date/time 01/27/21 14:10	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617464	25	02/06/21 15:00	02/06/21 15:00	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/03/21 21:11	DMG	Mt. Juliet, TN
				Collected by Alayna Thompson	Collected date/time 01/27/21 13:30	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617464	10	02/06/21 15:21	02/06/21 15:21	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/03/21 21:37	DMG	Mt. Juliet, TN
				Collected by Alayna Thompson	Collected date/time 01/27/21 14:30	Received date/time 01/30/21 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1617147	1	02/06/21 09:34	02/06/21 09:34	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1615486	1	02/03/21 07:42	02/03/21 22:03	DMG	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



TRIP BLANK L1312207-15 GW

Collected by
Alayna Thompson
01/27/21 00:00
Received date/time
01/30/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1614718	1	02/01/21 19:36	02/01/21 19:36	BMB	Mt. Juliet, TN

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc



Unless qualified or noted within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris Ward
Project Manager

Sample Delivery Group (SDG) Narrative

Analyzed from headspace vial.

Batch	Method	Lab Sample ID
WG1617147	8260B	L1312207-07, 09

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	02/06/2021 00:54	WG1617147	¹ Cp
Benzene	0.00343		0.0000941	0.00100	1	02/06/2021 00:54	WG1617147	² Tc
Ethylbenzene	0.00280		0.000137	0.00100	1	02/06/2021 00:54	WG1617147	³ Ss
Methyl tert-butyl ether	U		0.000101	0.00100	1	02/06/2021 00:54	WG1617147	⁴ Cn
Naphthalene	0.00195	J	0.00100	0.00500	1	02/06/2021 00:54	WG1617147	⁵ Sr
Toluene	U		0.000278	0.00100	1	02/06/2021 00:54	WG1617147	⁶ Qc
Xylenes, Total	0.00209	J	0.000174	0.00300	1	02/06/2021 00:54	WG1617147	⁷ GI
(S) Toluene-d8	96.6			80.0-120		02/06/2021 00:54	WG1617147	⁸ AI
(S) 4-Bromofluorobenzene	88.7			77.0-126		02/06/2021 00:54	WG1617147	
(S) 1,2-Dichloroethane-d4	92.2			70.0-130		02/06/2021 00:54	WG1617147	⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
DRO w/ SGT	0.146		0.0247	0.100	1	02/02/2021 20:50	WG1614810	
(S) o-Terphenyl	71.6			52.0-156		02/02/2021 20:50	WG1614810	



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	0.109	J	0.108	0.500	1	02/01/2021 22:33	WG1614718
Benzene	0.00382		0.0000941	0.00100	1	02/01/2021 22:33	WG1614718
Ethylbenzene	0.00359		0.000137	0.00100	1	02/01/2021 22:33	WG1614718
Methyl tert-butyl ether	U		0.000101	0.00100	1	02/01/2021 22:33	WG1614718
Naphthalene	0.00229	J	0.00100	0.00500	1	02/01/2021 22:33	WG1614718
Toluene	U		0.000278	0.00100	1	02/01/2021 22:33	WG1614718
Xylenes, Total	0.00112	J	0.000174	0.00300	1	02/01/2021 22:33	WG1614718
(S) Toluene-d8	99.7			80.0-120		02/01/2021 22:33	WG1614718
(S) 4-Bromofluorobenzene	91.8			77.0-126		02/01/2021 22:33	WG1614718
(S) 1,2-Dichloroethane-d4	92.7			70.0-130		02/01/2021 22:33	WG1614718

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
DRO w/ SGT	0.172		0.0247	0.100	1	02/04/2021 01:30	WG1615486
(S) o-Terphenyl	97.9			52.0-156		02/04/2021 01:30	WG1615486



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/MS) Low Fraction	0.836		0.108	0.500	1	02/01/2021 22:55	WG1614718
Benzene	0.248		0.000941	0.0100	10	02/06/2021 14:16	WG1617464
Ethylbenzene	0.00355		0.000137	0.00100	1	02/01/2021 22:55	WG1614718
Methyl tert-butyl ether	U		0.000101	0.00100	1	02/01/2021 22:55	WG1614718
Naphthalene	U		0.00100	0.00500	1	02/01/2021 22:55	WG1614718
Toluene	U		0.000278	0.00100	1	02/01/2021 22:55	WG1614718
Xylenes, Total	0.000244	J	0.000174	0.00300	1	02/01/2021 22:55	WG1614718
(S) Toluene-d8	101			80.0-120		02/01/2021 22:55	WG1614718
(S) Toluene-d8	101			80.0-120		02/06/2021 14:16	WG1617464
(S) 4-Bromofluorobenzene	94.1			77.0-126		02/01/2021 22:55	WG1614718
(S) 4-Bromofluorobenzene	91.5			77.0-126		02/06/2021 14:16	WG1617464
(S) 1,2-Dichloroethane-d4	91.3			70.0-130		02/01/2021 22:55	WG1614718
(S) 1,2-Dichloroethane-d4	88.5			70.0-130		02/06/2021 14:16	WG1617464

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
DRO w/ SGT	U		0.0247	0.100	1	02/03/2021 17:13	WG1615486
(S) o-Terphenyl	88.4			52.0-156		02/03/2021 17:13	WG1615486



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>	1 Cp
TPH (GC/MS) Low Fraction	1.47	J	1.08	5.00	10	02/06/2021 14:38	WG1617464	2 Tc
Benzene	0.340		0.000941	0.0100	10	02/06/2021 14:38	WG1617464	3 Ss
Ethylbenzene	0.156		0.00137	0.0100	10	02/06/2021 14:38	WG1617464	4 Cn
Methyl tert-butyl ether	U		0.00101	0.0100	10	02/06/2021 14:38	WG1617464	5 Sr
Naphthalene	U		0.0100	0.0500	10	02/06/2021 14:38	WG1617464	6 Qc
Toluene	0.00886	J	0.00278	0.0100	10	02/06/2021 14:38	WG1617464	7 GI
Xylenes, Total	0.00742	J	0.00174	0.0300	10	02/06/2021 14:38	WG1617464	8 Al
(S) Toluene-d8	98.8			80.0-120		02/06/2021 14:38	WG1617464	9 Sc
(S) 4-Bromofluorobenzene	90.5			77.0-126		02/06/2021 14:38	WG1617464	
(S) 1,2-Dichloroethane-d4	88.1			70.0-130		02/06/2021 14:38	WG1617464	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>	1 Cp
DRO w/ SGT	0.313		0.0247	0.100	1	02/03/2021 17:38	WG1615486	2 Tc
(S) o-Terphenyl	94.2			52.0-156		02/03/2021 17:38	WG1615486	3 Ss



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	02/01/2021 23:16	WG1614718
Benzene	0.000136	J	0.0000941	0.00100	1	02/06/2021 07:24	WG1617147
Ethylbenzene	U		0.000137	0.00100	1	02/01/2021 23:16	WG1614718
Methyl tert-butyl ether	U		0.000101	0.00100	1	02/01/2021 23:16	WG1614718
Naphthalene	U		0.00100	0.00500	1	02/01/2021 23:16	WG1614718
Toluene	U		0.000278	0.00100	1	02/01/2021 23:16	WG1614718
Xylenes, Total	U		0.000174	0.00300	1	02/01/2021 23:16	WG1614718
(S) Toluene-d8	101			80.0-120		02/01/2021 23:16	WG1614718
(S) Toluene-d8	102			80.0-120		02/06/2021 07:24	WG1617147
(S) 4-Bromofluorobenzene	90.7			77.0-126		02/01/2021 23:16	WG1614718
(S) 4-Bromofluorobenzene	90.4			77.0-126		02/06/2021 07:24	WG1617147
(S) 1,2-Dichloroethane-d4	90.8			70.0-130		02/01/2021 23:16	WG1614718
(S) 1,2-Dichloroethane-d4	92.5			70.0-130		02/06/2021 07:24	WG1617147

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
DRO w/ SGT	U		0.0247	0.100	1	02/03/2021 18:04	WG1615486
(S) o-Terphenyl	88.9			52.0-156		02/03/2021 18:04	WG1615486

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	02/01/2021 23:38	WG1614718
Benzene	0.000308	J	0.0000941	0.00100	1	02/01/2021 23:38	WG1614718
Ethylbenzene	U		0.000137	0.00100	1	02/01/2021 23:38	WG1614718
Methyl tert-butyl ether	U		0.000101	0.00100	1	02/01/2021 23:38	WG1614718
Naphthalene	U		0.00100	0.00500	1	02/01/2021 23:38	WG1614718
Toluene	U		0.000278	0.00100	1	02/01/2021 23:38	WG1614718
Xylenes, Total	U		0.000174	0.00300	1	02/01/2021 23:38	WG1614718
(S) Toluene-d8	99.1			80.0-120		02/01/2021 23:38	WG1614718
(S) 4-Bromofluorobenzene	90.3			77.0-126		02/01/2021 23:38	WG1614718
(S) 1,2-Dichloroethane-d4	94.4			70.0-130		02/01/2021 23:38	WG1614718

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
DRO w/ SGT	U		0.0247	0.100	1	02/03/2021 18:30	WG1615486
(S) o-Terphenyl	91.6			52.0-156		02/03/2021 18:30	WG1615486



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	02/06/2021 07:45	WG1617147
Benzene	U		0.0000941	0.00100	1	02/06/2021 07:45	WG1617147
Ethylbenzene	U		0.000137	0.00100	1	02/06/2021 07:45	WG1617147
Methyl tert-butyl ether	U		0.000101	0.00100	1	02/06/2021 07:45	WG1617147
Naphthalene	U		0.00100	0.00500	1	02/06/2021 07:45	WG1617147
Toluene	U		0.000278	0.00100	1	02/06/2021 07:45	WG1617147
Xylenes, Total	U		0.000174	0.00300	1	02/06/2021 07:45	WG1617147
(S) Toluene-d8	102			80.0-120		02/06/2021 07:45	WG1617147
(S) 4-Bromofluorobenzene	92.3			77.0-126		02/06/2021 07:45	WG1617147
(S) 1,2-Dichloroethane-d4	92.9			70.0-130		02/06/2021 07:45	WG1617147

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
DRO w/ SGT	U		0.0247	0.100	1	02/03/2021 19:02	WG1615486
(S) o-Terphenyl	94.2			52.0-156		02/03/2021 19:02	WG1615486



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	02/06/2021 08:07	WG1617147
Benzene	0.000131	J	0.0000941	0.00100	1	02/06/2021 08:07	WG1617147
Ethylbenzene	U		0.000137	0.00100	1	02/06/2021 08:07	WG1617147
Methyl tert-butyl ether	U		0.000101	0.00100	1	02/06/2021 08:07	WG1617147
Naphthalene	U		0.00100	0.00500	1	02/06/2021 08:07	WG1617147
Toluene	U		0.000278	0.00100	1	02/06/2021 08:07	WG1617147
Xylenes, Total	0.000209	J	0.000174	0.00300	1	02/06/2021 08:07	WG1617147
(S) Toluene-d8	104			80.0-120		02/06/2021 08:07	WG1617147
(S) 4-Bromofluorobenzene	93.0			77.0-126		02/06/2021 08:07	WG1617147
(S) 1,2-Dichloroethane-d4	92.9			70.0-130		02/06/2021 08:07	WG1617147

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
DRO w/ SGT	U		0.0247	0.100	1	02/03/2021 19:28	WG1615486
(S) o-Terphenyl	97.4			52.0-156		02/03/2021 19:28	WG1615486



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	02/06/2021 08:29	WG1617147	¹ Cp
Benzene	0.000372	J	0.0000941	0.00100	1	02/06/2021 08:29	WG1617147	² Tc
Ethylbenzene	0.00140		0.000137	0.00100	1	02/06/2021 08:29	WG1617147	³ Ss
Methyl tert-butyl ether	U		0.000101	0.00100	1	02/06/2021 08:29	WG1617147	⁴ Cn
Naphthalene	U		0.00100	0.00500	1	02/06/2021 08:29	WG1617147	⁵ Sr
Toluene	U		0.000278	0.00100	1	02/06/2021 08:29	WG1617147	⁶ Qc
Xylenes, Total	0.000610	J	0.000174	0.00300	1	02/06/2021 08:29	WG1617147	⁷ GI
(S) Toluene-d8	101			80.0-120		02/06/2021 08:29	WG1617147	⁸ AI
(S) 4-Bromofluorobenzene	90.8			77.0-126		02/06/2021 08:29	WG1617147	
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		02/06/2021 08:29	WG1617147	⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
DRO w/ SGT	U		0.0247	0.100	1	02/03/2021 19:54	WG1615486	
(S) o-Terphenyl	96.3			52.0-156		02/03/2021 19:54	WG1615486	



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	02/06/2021 08:50	WG1617147
Benzene	0.000500	J	0.0000941	0.00100	1	02/06/2021 08:50	WG1617147
Ethylbenzene	0.00303		0.000137	0.00100	1	02/06/2021 08:50	WG1617147
Methyl tert-butyl ether	U		0.000101	0.00100	1	02/06/2021 08:50	WG1617147
Naphthalene	U		0.00100	0.00500	1	02/06/2021 08:50	WG1617147
Toluene	U		0.000278	0.00100	1	02/06/2021 08:50	WG1617147
Xylenes, Total	0.000869	J	0.000174	0.00300	1	02/06/2021 08:50	WG1617147
(S) Toluene-d8	98.2			80.0-120		02/06/2021 08:50	WG1617147
(S) 4-Bromofluorobenzene	90.3			77.0-126		02/06/2021 08:50	WG1617147
(S) 1,2-Dichloroethane-d4	91.8			70.0-130		02/06/2021 08:50	WG1617147

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
DRO w/ SGT	U		0.0247	0.100	1	02/03/2021 20:20	WG1615486
(S) o-Terphenyl	101			52.0-156		02/03/2021 20:20	WG1615486



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>	1 Cp
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	02/06/2021 09:12	WG1617147	
Benzene	U		0.0000941	0.00100	1	02/06/2021 09:12	WG1617147	
Ethylbenzene	U		0.000137	0.00100	1	02/06/2021 09:12	WG1617147	
Methyl tert-butyl ether	U		0.000101	0.00100	1	02/06/2021 09:12	WG1617147	
Naphthalene	U		0.00100	0.00500	1	02/06/2021 09:12	WG1617147	
Toluene	U		0.000278	0.00100	1	02/06/2021 09:12	WG1617147	
Xylenes, Total	U		0.000174	0.00300	1	02/06/2021 09:12	WG1617147	
(S) Toluene-d8	103			80.0-120		02/06/2021 09:12	WG1617147	
(S) 4-Bromofluorobenzene	90.3			77.0-126		02/06/2021 09:12	WG1617147	
(S) 1,2-Dichloroethane-d4	94.6			70.0-130		02/06/2021 09:12	WG1617147	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>	2 Tc
DRO w/ SGT	U		0.0247	0.100	1	02/03/2021 20:46	WG1615486	
(S) o-Terphenyl	91.6			52.0-156		02/03/2021 20:46	WG1615486	

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch		
TPH (GC/MS) Low Fraction	13.1		2.70	12.5	25	02/06/2021 15:00	WG1617464	¹ Cp	
Benzene	2.84		0.00235	0.0250	25	02/06/2021 15:00	WG1617464	² Tc	
Ethylbenzene	0.565		0.00343	0.0250	25	02/06/2021 15:00	WG1617464	³ Ss	
Methyl tert-butyl ether	U		0.00253	0.0250	25	02/06/2021 15:00	WG1617464	⁴ Cn	
Naphthalene	0.0451	J		0.0250	0.125	02/06/2021 15:00	WG1617464	⁵ Sr	
Toluene	0.463			0.00695	0.0250	25	02/06/2021 15:00	WG1617464	⁶ Qc
Xylenes, Total	1.75			0.00435	0.0750	25	02/06/2021 15:00	WG1617464	⁷ Gl
(S) Toluene-d8	99.0				80.0-120	02/06/2021 15:00	WG1617464	⁸ Al	
(S) 4-Bromofluorobenzene	90.3				77.0-126	02/06/2021 15:00	WG1617464		
(S) 1,2-Dichloroethane-d4	89.4				70.0-130	02/06/2021 15:00	WG1617464	⁹ Sc	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
DRO w/ SGT	1.10		0.0247	0.100	1	02/03/2021 21:11	WG1615486	
(S) o-Terphenyl	97.9			52.0-156		02/03/2021 21:11	WG1615486	



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>	1 Cp
TPH (GC/MS) Low Fraction	2.92	J	1.08	5.00	10	02/06/2021 15:21	WG1617464	2 Tc
Benzene	0.282		0.000941	0.0100	10	02/06/2021 15:21	WG1617464	3 Ss
Ethylbenzene	0.115		0.00137	0.0100	10	02/06/2021 15:21	WG1617464	4 Cn
Methyl tert-butyl ether	U		0.00101	0.0100	10	02/06/2021 15:21	WG1617464	5 Sr
Naphthalene	U		0.0100	0.0500	10	02/06/2021 15:21	WG1617464	6 Qc
Toluene	0.322		0.00278	0.0100	10	02/06/2021 15:21	WG1617464	7 GI
Xylenes, Total	0.584		0.00174	0.0300	10	02/06/2021 15:21	WG1617464	8 Al
(S) Toluene-d8	99.1			80.0-120		02/06/2021 15:21	WG1617464	9 Sc
(S) 4-Bromofluorobenzene	91.4			77.0-126		02/06/2021 15:21	WG1617464	
(S) 1,2-Dichloroethane-d4	89.3			70.0-130		02/06/2021 15:21	WG1617464	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>	1 Cp
DRO w/ SGT	0.139		0.0247	0.100	1	02/03/2021 21:37	WG1615486	2 Tc
(S) o-Terphenyl	95.8			52.0-156		02/03/2021 21:37	WG1615486	3 Ss



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	02/06/2021 09:34	WG1617147
Benzene	0.00222		0.0000941	0.00100	1	02/06/2021 09:34	WG1617147
Ethylbenzene	U		0.000137	0.00100	1	02/06/2021 09:34	WG1617147
Methyl tert-butyl ether	U		0.000101	0.00100	1	02/06/2021 09:34	WG1617147
Naphthalene	U		0.00100	0.00500	1	02/06/2021 09:34	WG1617147
Toluene	U		0.000278	0.00100	1	02/06/2021 09:34	WG1617147
Xylenes, Total	U		0.000174	0.00300	1	02/06/2021 09:34	WG1617147
(S) Toluene-d8	101			80.0-120		02/06/2021 09:34	WG1617147
(S) 4-Bromofluorobenzene	89.8			77.0-126		02/06/2021 09:34	WG1617147
(S) 1,2-Dichloroethane-d4	93.3			70.0-130		02/06/2021 09:34	WG1617147

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
DRO w/ SGT	U		0.0247	0.100	1	02/03/2021 22:03	WG1615486
(S) o-Terphenyl	91.1			52.0-156		02/03/2021 22:03	WG1615486



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	02/01/2021 19:36	WG1614718	¹ Cp
Benzene	0.000158	J	0.0000941	0.00100	1	02/01/2021 19:36	WG1614718	² Tc
Ethylbenzene	U		0.000137	0.00100	1	02/01/2021 19:36	WG1614718	³ Ss
Methyl tert-butyl ether	U		0.000101	0.00100	1	02/01/2021 19:36	WG1614718	⁴ Cn
Naphthalene	U		0.00100	0.00500	1	02/01/2021 19:36	WG1614718	⁵ Sr
Toluene	0.000381	J	0.000278	0.00100	1	02/01/2021 19:36	WG1614718	⁶ Qc
Xylenes, Total	0.000439	J	0.000174	0.00300	1	02/01/2021 19:36	WG1614718	⁷ Gl
(S) Toluene-d8	102			80.0-120		02/01/2021 19:36	WG1614718	⁸ Al
(S) 4-Bromofluorobenzene	92.9			77.0-126		02/01/2021 19:36	WG1614718	⁹ Sc
(S) 1,2-Dichloroethane-d4	89.6			70.0-130		02/01/2021 19:36	WG1614718	



Method Blank (MB)

(MB) R3618333-3 02/01/21 13:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/MS) Low Fraction	U		0.108	0.500
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	98.3		80.0-120	
(S) 4-Bromofluorobenzene	93.0		77.0-126	
(S) 1,2-Dichloroethane-d4	91.8		70.0-130	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3618333-1 02/01/21 12:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00451	90.2	70.0-123	
Ethylbenzene	0.00500	0.00470	94.0	79.0-123	
Methyl tert-butyl ether	0.00500	0.00452	90.4	68.0-125	
Naphthalene	0.00500	0.00498	99.6	54.0-135	
Toluene	0.00500	0.00500	100	79.0-120	
Xylenes, Total	0.0150	0.0141	94.0	79.0-123	
(S) Toluene-d8		97.5	80.0-120		
(S) 4-Bromofluorobenzene		90.4	77.0-126		
(S) 1,2-Dichloroethane-d4		96.7	70.0-130		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3618333-2 02/01/21 12:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/MS) Low Fraction	5.00	4.68	93.6	66.0-132	
(S) Toluene-d8		96.7	80.0-120		
(S) 4-Bromofluorobenzene		95.8	77.0-126		
(S) 1,2-Dichloroethane-d4		95.8	70.0-130		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc



L1312207-01,05,07,08,09,10,11,14

Method Blank (MB)

(MB) R3620153-4 02/06/21 00:11

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
TPH (GC/MS) Low Fraction	U		0.108	0.500
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	101		80.0-120	
(S) 4-Bromofluorobenzene	89.7		77.0-126	
(S) 1,2-Dichloroethane-d4	93.8		70.0-130	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3620153-1 02/05/21 22:05 • (LCSD) R3620153-2 02/05/21 22:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Benzene	0.00500	0.00437	0.00435	87.4	87.0	70.0-123			0.459	20
Ethylbenzene	0.00500	0.00433	0.00441	86.6	88.2	79.0-123			1.83	20
Methyl tert-butyl ether	0.00500	0.00441	0.00447	88.2	89.4	68.0-125			1.35	20
Naphthalene	0.00500	0.00469	0.00477	93.8	95.4	54.0-135			1.69	20
Toluene	0.00500	0.00467	0.00472	93.4	94.4	79.0-120			1.06	20
Xylenes, Total	0.0150	0.0128	0.0131	85.3	87.3	79.0-123			2.32	20
(S) Toluene-d8				96.7	97.6	80.0-120				
(S) 4-Bromofluorobenzene				90.9	89.9	77.0-126				
(S) 1,2-Dichloroethane-d4				98.4	95.9	70.0-130				

Laboratory Control Sample (LCS)

(LCS) R3620153-3 02/05/21 22:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits	<u>LCS Qualifier</u>
TPH (GC/MS) Low Fraction	5.00	5.01	100	66.0-132	
(S) Toluene-d8			101	80.0-120	
(S) 4-Bromofluorobenzene			101	77.0-126	
(S) 1,2-Dichloroethane-d4			95.4	70.0-130	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc



L1312207-03,04,12,13

Method Blank (MB)

(MB) R3620148-3 02/06/21 13:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l	
TPH (GC/MS) Low Fraction	U		0.108	0.500	¹ Cp
Benzene	U		0.0000941	0.00100	² Tc
Ethylbenzene	U		0.000137	0.00100	³ Ss
Methyl tert-butyl ether	U		0.000101	0.00100	⁴ Cn
Naphthalene	U		0.00100	0.00500	⁵ Sr
Toluene	U		0.000278	0.00100	⁶ Qc
Xylenes, Total	U		0.000174	0.00300	⁷ Gl
(S) Toluene-d8	100		80.0-120		⁸ Al
(S) 4-Bromofluorobenzene	89.9		77.0-126		⁹ Sc
(S) 1,2-Dichloroethane-d4	90.1		70.0-130		

Laboratory Control Sample (LCS)

(LCS) R3620148-1 02/06/21 12:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier	
Benzene	0.00500	0.00470	94.0	70.0-123		
Ethylbenzene	0.00500	0.00489	97.8	79.0-123		
Methyl tert-butyl ether	0.00500	0.00440	88.0	68.0-125		
Naphthalene	0.00500	0.00416	83.2	54.0-135		
Toluene	0.00500	0.00511	102	79.0-120		
Xylenes, Total	0.0150	0.0142	94.7	79.0-123		
(S) Toluene-d8		98.3	80.0-120			
(S) 4-Bromofluorobenzene		93.1	77.0-126			
(S) 1,2-Dichloroethane-d4		94.3	70.0-130			

Laboratory Control Sample (LCS)

(LCS) R3620148-2 02/06/21 12:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier	
TPH (GC/MS) Low Fraction	5.00	5.00	100	66.0-132		
(S) Toluene-d8		95.4	80.0-120			
(S) 4-Bromofluorobenzene		96.9	77.0-126			
(S) 1,2-Dichloroethane-d4		96.9	70.0-130			



Method Blank (MB)

(MB) R3618741-1 02/02/21 13:12

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
DRO W/ SGT	U		0.0247	0.100
(S) o-Terphenyl	78.0		52.0-156	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3618741-2 02/02/21 13:34 • (LCSD) R3618741-3 02/02/21 13:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
DRO W/ SGT	1.50	1.30	1.27	86.7	84.7	50.0-150			2.33	20
(S) o-Terphenyl			84.0	81.0	81.0	52.0-156				



Method Blank (MB)

(MB) R3618994-1 02/03/21 11:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
DRO W/ SGT	U		0.0247	0.100
(S) o-Terphenyl	96.0			52.0-156

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3618994-2 02/03/21 12:21 • (LCSD) R3618994-3 02/03/21 12:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits %
DRO W/ SGT	1.50	1.34	1.29	89.3	86.0	50.0-150			3.80	20
(S) o-Terphenyl				114	112	52.0-156				



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.	¹ Cp
RDL	Reported Detection Limit.	² Tc
Rec.	Recovery.	³ Ss
RPD	Relative Percent Difference.	⁴ Cn
SDG	Sample Delivery Group.	⁵ Sr
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.	⁶ Qc
U	Not detected at the Reporting Limit (or MDL where applicable).	⁷ Gl
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	⁸ Al
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.	⁹ Sc
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.	
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.	
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.	
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.	
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.	
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.	
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.	
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.	
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.	

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
 * Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN, 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

Pace Analytical National 1313 Point Mallard Parkway SE Suite B Decatur, AL, 35601

Alabama	40160
ANSI National Accreditation Board	L2239

Pace Analytical National 660 Bercut Dr. Ste. C Sacramento, CA, 95811

California	2961	Oregon	CA300002
Minnesota	006-999-465	Washington	C926
North Dakota	R-214		

Pace Analytical National 6000 South Eastern Avenue Ste 9A Las Vegas, NV, 89119

Nevada	NV009412021-1
Texas	T104704328-20-18

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

TERRDUT Terracon SLC		Billing Information: TERRDUT Terracon 6049 High Tech Drive SLC Utah 84047		Pres Chk	Analysis / Container / Preservative						Chain of Custody	Page <u>1</u> of <u>2</u>
Report to: Curt Stripeika		Email To: curt.stripeika@terracon.com										
Project Description: TSC Layton		City/State Collected: Layton, Utah										
Phone:	Client Project #		Lab Project #									
Fax:	61197153 task 9.2											
Collected by (print): Alayna Thompson	Site/Facility ID #		P.O. #									
Collected by (signature): <i>AB</i>	Rush? (Lab MUST Be Notified)		Quote #									
Immediately Packed on Ice N <u>Y</u> ✓	Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day <input type="checkbox"/>		Date Results Needed 5 Day TAT (Terracon Standard)		No. of Cntrs							
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time							
MW-13	grab	GW	-	1-27-21	1100	5	X	X				-01
MW-33			-		1110	5	X	X				02
MW-31			-		1415	2	X	X				03
MW-19			-		1540	5	X	X				04
MW-08			-		1000	3	X	X				05
MW-14			-		1145	5	X	X				06
MW-37			-		1330	3	X	X				07
MW-30			-		1500	5	X	X				08
MW-23			-	1-28-21	1025	2	X	X				09
MW-43	↓	↓	-	1-28-21	1030	3	X	X				10
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____	Remarks:				pH	Temp						
							Flow	Other				
	Samples returned via: UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>		Tracking #									
Relinquished by : (Signature) <i>JCO</i>	Date: 1-29-21 1-28-2021	Time: 9:10 17:15 <i>as</i>	Received by: (Signature) <i>CHL</i>	Trip Blank Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> HCl / MeOH TBR	<u>1</u>							
Relinquished by : (Signature) <i>PNSLCUT</i>	Date: 1/29/21	Time: 1700	Received by: (Signature)	Temp: <u>70.3</u> °C	Bottles Received: <u>8-10-8</u>	<u>57</u>						
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: <u>1/30/21</u>	Time: <u>9:00</u>	Hold:	If preservation required by Login: Date/Time					
							Condition: <u>NCF</u> / OK					

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Fax: 615-758-5859



L# L1312207

C041

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

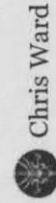
Remarks Sample # (lab only)

Sample Receipt Checklist
 COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N

page 2 same info as page 1		Billing Information:			Pres Chk	Analysis / Container / Preservative								Chain of Custody Page 2 of 3	
Report to: <i>Curt Stipeika</i>		Email To: <i>Curt.Stipeika@terracon.com</i>													
Project Description: TSC Chevron		City/State Collected: Layton, UT													
Phone:	Client Project #			Lab Project #											
Fax:	61197153 Tank 9.2														
Collected by (print): <i>Alayna Thompson</i>	Site/Facility ID #			P.O. #											
Collected by (signature): <i>al</i>	Rush? (Lab MUST Be Notified)			Quote #											
Immediately Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/>	Same Day <input type="checkbox"/> Next Day <input type="checkbox"/> Two Day <input type="checkbox"/> Three Day <input type="checkbox"/>			Five Day 5 Day (Rad Only) 10 Day (Rad Only)			Date Results Needed <i>5 Day Terracor std TAT</i>	No. of Cntrs							
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		TPH-GRO / MBTEXN 8260B								
MW-32	<i>grab</i>	<i>GW</i>	-	1-28-21	17:30		<i>83</i> X	X					-11		
MW-01			-		1410		<i>59</i> X	X					12		
MW-02			-		1330		<i>4</i> X	X					13		
MW-04			-		1430		<i>5</i> X	X					14		
Trip Blank	-	-	-	-	-		X	X					15		
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____	Remarks: Samples returned via: UPS FedEx Courier										pH _____ Temp _____ Flow _____ Other _____	Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <i>If Applicable</i> VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
Relinquished by : (Signature) <i>al</i>	Date: 1-29-21 +28-2021 <i>1715</i> <i>al</i>	Time: 9:10	Received by: (Signature) <i>al</i>	Trip Blank Received: Yes / No <i>19</i> HCl / MeOH TBR	Tracking #										
Relinquished by : (Signature) <i>al</i> <i>PNSLCUT</i>	Date: 1/29/21	Time: 1700	Received by: (Signature)	Temp: <i>17.93</i> °C Bottles Received: <i>250.8 57</i>	If preservation required by Login: Date/Time										
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 1/30/21	Time: 0:00	Hold:	Condition: <i>NCF / OK</i>								

L1312207 TERRDUT NCF**R5****Time estimate:** oh **Time spent:** oh**Members**

Jeremy Watkins (responsible)



Chris Ward

- Parameter(s) past holding time
- Temperature not in range
- Improper container type
- pH not in range
- Insufficient sample volume

Sample is biphasic

Vials received with headspace

- Broken container

- Sufficient sample remains

If broken container: Insufficient packing material around container

If broken container: Insufficient packing material inside cooler

If broken container: Improper handling by carrier: _____

- If broken container: Sample was frozen

If broken container: Container lid not intact

Client informed by Call

Client informed by Email

Client informed by Voicemail

Date/Time: _____

PM initials: CMW _____

Client Contact: _____

Comments*Jeremy Watkins**30 January 2021 4:15 PM*

1. 3 of 5 vials broken/Frozen for MW-31, MW-23
2. 2 of 5 vials broken/Frozen for MW-08, MW-37, MW-43 and MW-32
3. 1 of 5 vials broken/Frozen for MW-02
4. Received MW-22 @ 1055. 3 of 5 vials broken.

Chris Ward

Please proceed. Note limited volume on the effected samples.

Matthew Shacklock

Done



ANALYTICAL REPORT

October 20, 2021

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷GI

⁸AI

⁹Sc

Terracon - Salt Lake City, UT

Sample Delivery Group: L1415684
Samples Received: 10/08/2021
Project Number: 61197153 TASK 9.2
Description: Triple Stop Chevron

Report To: Curt Stripeika
6949 South High Tech Drive
Midvale, UT 84047

Entire Report Reviewed By:

Chris Ward
Project Manager

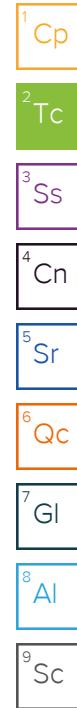
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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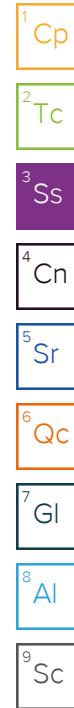
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Al: Accreditations & Locations	28	25
Sc: Sample Chain of Custody	29	26



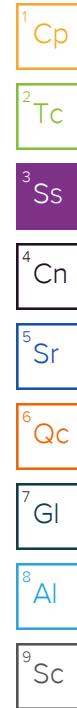
SAMPLE SUMMARY

			Collected by	Collected date/time	Received date/time	
			Roy McDonald	10/04/21 12:13	10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1757362	1	10/15/21 03:15	10/15/21 03:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757580	1	10/14/21 08:55	10/14/21 16:11	DMG	Mt. Juliet, TN
MW-39 L1415684-01 GW			Collected by	Collected date/time	Received date/time	
			Roy McDonald	10/04/21 13:11	10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1757362	1	10/15/21 03:35	10/15/21 03:35	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757580	1	10/14/21 08:55	10/14/21 16:38	DMG	Mt. Juliet, TN
MW-38 L1415684-02 GW			Collected by	Collected date/time	Received date/time	
			Roy McDonald	10/04/21 14:17	10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Fe B-2011	WG1756874	1	10/16/21 15:53	10/16/21 15:53	MRM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1756392	1	10/14/21 12:06	10/14/21 12:06	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1756817	1	10/14/21 08:27	10/14/21 17:30	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1757362	1	10/15/21 03:55	10/15/21 03:55	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757580	1	10/14/21 08:55	10/14/21 17:04	DMG	Mt. Juliet, TN
MW-37 L1415684-04 GW			Collected by	Collected date/time	Received date/time	
			Roy McDonald	10/04/21 15:26	10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Fe B-2011	WG1756874	1	10/16/21 15:54	10/16/21 15:54	MRM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1756392	1	10/14/21 12:37	10/14/21 12:37	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1756817	1	10/14/21 08:27	10/14/21 17:38	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1757362	1	10/15/21 04:15	10/15/21 04:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757580	1	10/14/21 08:55	10/14/21 17:29	DMG	Mt. Juliet, TN
MW-2 L1415684-05 GW			Collected by	Collected date/time	Received date/time	
			Roy McDonald	10/06/21 09:11	10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1757362	10	10/15/21 06:14	10/15/21 06:14	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1759103	10	10/19/21 14:28	10/19/21 14:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 01:07	DMG	Mt. Juliet, TN
MW-18 L1415684-06 GW			Collected by	Collected date/time	Received date/time	
			Roy McDonald	10/06/21 10:20	10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1757362	1	10/15/21 04:35	10/15/21 04:35	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 01:27	DMG	Mt. Juliet, TN



SAMPLE SUMMARY

			Collected by Roy McDonald	Collected date/time 10/06/21 11:21	Received date/time 10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1757362	1	10/15/21 04:54	10/15/21 04:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 01:47	DMG	Mt. Juliet, TN
MW-4 L1415684-08 GW			Collected by Roy McDonald	Collected date/time 10/06/21 12:28	Received date/time 10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1757362	1	10/15/21 05:14	10/15/21 05:14	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1759103	5	10/19/21 14:48	10/19/21 14:48	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 02:07	DMG	Mt. Juliet, TN
MW-1 L1415684-09 GW			Collected by Roy McDonald	Collected date/time 10/06/21 13:30	Received date/time 10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Fe B-2011	WG1756874	30	10/16/21 15:55	10/16/21 15:55	MRM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1756392	1	10/14/21 12:53	10/14/21 12:53	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1756817	1	10/14/21 08:27	10/14/21 17:41	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1757362	25	10/15/21 06:33	10/15/21 06:33	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1759103	25	10/19/21 15:09	10/19/21 15:09	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 02:27	DMG	Mt. Juliet, TN
MW-19 L1415684-10 GW			Collected by Roy McDonald	Collected date/time 10/06/21 14:53	Received date/time 10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Fe B-2011	WG1756874	30	10/16/21 15:55	10/16/21 15:55	MRM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1756392	1	10/14/21 13:09	10/14/21 13:09	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1756817	1	10/14/21 08:27	10/14/21 17:44	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1757362	10	10/15/21 06:53	10/15/21 06:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1759103	25	10/19/21 15:29	10/19/21 15:29	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 02:47	DMG	Mt. Juliet, TN
MW-20 L1415684-11 GW			Collected by Roy McDonald	Collected date/time 10/06/21 16:11	Received date/time 10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Fe B-2011	WG1756874	1	10/16/21 15:56	10/16/21 15:56	MRM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1756392	1	10/14/21 13:25	10/14/21 13:25	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1756817	1	10/14/21 08:27	10/14/21 17:46	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1759103	1	10/19/21 13:47	10/19/21 13:47	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 10:15	DMG	Mt. Juliet, TN
DUP#1 L1415684-12 GW			Collected by Roy McDonald	Collected date/time 10/05/21 00:00	Received date/time 10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1757362	1	10/15/21 05:34	10/15/21 05:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1759103	20	10/19/21 15:49	10/19/21 15:49	DWR	Mt. Juliet, TN



SAMPLE SUMMARY

MW-31 L1415684-13 GW			Collected by Roy McDonald	Collected date/time 10/04/21 16:20	Received date/time 10/08/21 08:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Fe B-2011	WG1756874	1	10/16/21 15:57	10/16/21 15:57	MRM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1756392	1	10/14/21 14:45	10/14/21 14:45	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1756817	1	10/14/21 08:27	10/14/21 17:49	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1759103	1	10/19/21 14:08	10/19/21 14:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757580	1	10/14/21 08:55	10/14/21 17:56	DMG	Mt. Juliet, TN

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

CASE NARRATIVE

Unless qualified or noted within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ SC

Sample Delivery Group (SDG) Narrative

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG1756874	3500Fe B-2011	L1415684-03, 04, 09, 10, 11, 13

Wet Chemistry by Method 9056A

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG1756392	(MS) R3716774-7	Sulfate

Volatile Organic Compounds (GC/MS) by Method 8260B

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1759103	(LCSD) R3718733-2, L1415684-11, 13	Naphthalene

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/l		mg/l	mg/l			
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	10/15/2021 03:15	WG1757362
Benzene	U		0.0000941	0.00100	1	10/15/2021 03:15	WG1757362
Ethylbenzene	U		0.000137	0.00100	1	10/15/2021 03:15	WG1757362
Methyl tert-butyl ether	0.000286	J	0.000101	0.00100	1	10/15/2021 03:15	WG1757362
Naphthalene	U		0.00100	0.00500	1	10/15/2021 03:15	WG1757362
Toluene	U		0.000278	0.00100	1	10/15/2021 03:15	WG1757362
Xylenes, Total	U		0.000174	0.00300	1	10/15/2021 03:15	WG1757362
(S) Toluene-d8	109			80.0-120		10/15/2021 03:15	WG1757362
(S) 4-Bromofluorobenzene	97.4			77.0-126		10/15/2021 03:15	WG1757362
(S) 1,2-Dichloroethane-d4	104			70.0-130		10/15/2021 03:15	WG1757362

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/l		mg/l	mg/l			
(WY) Diesel Range Organics	U		0.0294	0.100	1	10/14/2021 16:11	WG1757580
(S) o-Terphenyl	119			52.0-156		10/14/2021 16:11	WG1757580

⁷ GI⁸ Al⁹ Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/l		mg/l	mg/l			
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	10/15/2021 03:35	WG1757362
Benzene	U		0.0000941	0.00100	1	10/15/2021 03:35	WG1757362
Ethylbenzene	U		0.000137	0.00100	1	10/15/2021 03:35	WG1757362
Methyl tert-butyl ether	0.000765	J	0.000101	0.00100	1	10/15/2021 03:35	WG1757362
Naphthalene	U		0.00100	0.00500	1	10/15/2021 03:35	WG1757362
Toluene	U		0.000278	0.00100	1	10/15/2021 03:35	WG1757362
Xylenes, Total	0.000397	J	0.000174	0.00300	1	10/15/2021 03:35	WG1757362
(S) Toluene-d8	112			80.0-120		10/15/2021 03:35	WG1757362
(S) 4-Bromofluorobenzene	99.0			77.0-126		10/15/2021 03:35	WG1757362
(S) 1,2-Dichloroethane-d4	105			70.0-130		10/15/2021 03:35	WG1757362

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/l		mg/l	mg/l			
(WY) Diesel Range Organics	U		0.0294	0.100	1	10/14/2021 16:38	WG1757580
(S) o-Terphenyl	118			52.0-156		10/14/2021 16:38	WG1757580

⁷ GI⁸ Al⁹ Sc

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Ferrous Iron	0.0490	J T8	0.0150	0.0500	1	10/16/2021 15:53	WG1756874

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfate	14.6		0.594	5.00	1	10/14/2021 12:06	WG1756392

Metals (ICP) by Method 6010B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Iron,Dissolved	U		0.0180	0.100	1	10/14/2021 17:30	WG1756817
Manganese,Dissolved	0.125		0.000934	0.0100	1	10/14/2021 17:30	WG1756817

⁶ Qc⁷ GI⁸ Al⁹ Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	10/15/2021 03:55	WG1757362
Benzene	U		0.0000941	0.00100	1	10/15/2021 03:55	WG1757362
Ethylbenzene	U		0.000137	0.00100	1	10/15/2021 03:55	WG1757362
Methyl tert-butyl ether	0.000194	J	0.000101	0.00100	1	10/15/2021 03:55	WG1757362
Naphthalene	U		0.00100	0.00500	1	10/15/2021 03:55	WG1757362
Toluene	U		0.000278	0.00100	1	10/15/2021 03:55	WG1757362
Xylenes, Total	U		0.000174	0.00300	1	10/15/2021 03:55	WG1757362
(S) Toluene-d8	108			80.0-120		10/15/2021 03:55	WG1757362
(S) 4-Bromofluorobenzene	95.3			77.0-126		10/15/2021 03:55	WG1757362
(S) 1,2-Dichloroethane-d4	99.9			70.0-130		10/15/2021 03:55	WG1757362

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	U		0.0294	0.100	1	10/14/2021 17:04	WG1757580
(S) o-Terphenyl	108			52.0-156		10/14/2021 17:04	WG1757580

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Ferrous Iron	U	T8	0.0150	0.0500	1	10/16/2021 15:54	WG1756874

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfate	42.2		0.594	5.00	1	10/14/2021 12:37	WG1756392

Metals (ICP) by Method 6010B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Iron,Dissolved	U		0.0180	0.100	1	10/14/2021 17:38	WG1756817
Manganese,Dissolved	0.0133		0.000934	0.0100	1	10/14/2021 17:38	WG1756817

⁶Qc⁷Gl⁸Al⁹Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	10/15/2021 04:15	WG1757362
Benzene	U		0.0000941	0.00100	1	10/15/2021 04:15	WG1757362
Ethylbenzene	U		0.000137	0.00100	1	10/15/2021 04:15	WG1757362
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/15/2021 04:15	WG1757362
Naphthalene	U		0.00100	0.00500	1	10/15/2021 04:15	WG1757362
Toluene	U		0.000278	0.00100	1	10/15/2021 04:15	WG1757362
Xylenes, Total	U		0.000174	0.00300	1	10/15/2021 04:15	WG1757362
(S) Toluene-d8	111			80.0-120		10/15/2021 04:15	WG1757362
(S) 4-Bromofluorobenzene	97.6			77.0-126		10/15/2021 04:15	WG1757362
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		10/15/2021 04:15	WG1757362

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	U		0.0294	0.100	1	10/14/2021 17:29	WG1757580
(S) o-Terphenyl	126			52.0-156		10/14/2021 17:29	WG1757580

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/MS) Low Fraction	7.67		1.08	5.00	10	10/19/2021 14:28	WG1759103
Benzene	0.527		0.000941	0.0100	10	10/15/2021 06:14	WG1757362
Ethylbenzene	0.307		0.00137	0.0100	10	10/15/2021 06:14	WG1757362
Methyl tert-butyl ether	U		0.00101	0.0100	10	10/15/2021 06:14	WG1757362
Naphthalene	0.0492	J	0.0100	0.0500	10	10/15/2021 06:14	WG1757362
Toluene	0.0519		0.00278	0.0100	10	10/15/2021 06:14	WG1757362
Xylenes, Total	2.32		0.00174	0.0300	10	10/15/2021 06:14	WG1757362
(S) Toluene-d8	105			80.0-120		10/15/2021 06:14	WG1757362
(S) Toluene-d8	114			80.0-120		10/19/2021 14:28	WG1759103
(S) 4-Bromofluorobenzene	99.1			77.0-126		10/15/2021 06:14	WG1757362
(S) 4-Bromofluorobenzene	103			77.0-126		10/19/2021 14:28	WG1759103
(S) 1,2-Dichloroethane-d4	95.7			70.0-130		10/15/2021 06:14	WG1757362
(S) 1,2-Dichloroethane-d4	111			70.0-130		10/19/2021 14:28	WG1759103

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(WY) Diesel Range Organics	0.403		0.0294	0.100	1	10/18/2021 01:07	WG1757823
(S) o-Terphenyl	60.0			52.0-156		10/18/2021 01:07	WG1757823

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	<u>Qualifier</u>	MDL	RDL	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	10/15/2021 04:35	WG1757362
Benzene	U		0.0000941	0.00100	1	10/15/2021 04:35	WG1757362
Ethylbenzene	U		0.000137	0.00100	1	10/15/2021 04:35	WG1757362
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/15/2021 04:35	WG1757362
Naphthalene	U		0.00100	0.00500	1	10/15/2021 04:35	WG1757362
Toluene	U		0.000278	0.00100	1	10/15/2021 04:35	WG1757362
Xylenes, Total	U		0.000174	0.00300	1	10/15/2021 04:35	WG1757362
(S) Toluene-d8	112			80.0-120		10/15/2021 04:35	WG1757362
(S) 4-Bromofluorobenzene	101			77.0-126		10/15/2021 04:35	WG1757362
(S) 1,2-Dichloroethane-d4	101			70.0-130		10/15/2021 04:35	WG1757362

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result	<u>Qualifier</u>	MDL	RDL	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	U		0.0294	0.100	1	10/18/2021 01:27	WG1757823
(S) o-Terphenyl	82.1			52.0-156		10/18/2021 01:27	WG1757823

⁷ GI⁸ Al⁹ Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	10/15/2021 04:54	WG1757362
Benzene	0.0253		0.0000941	0.00100	1	10/15/2021 04:54	WG1757362
Ethylbenzene	U		0.000137	0.00100	1	10/15/2021 04:54	WG1757362
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/15/2021 04:54	WG1757362
Naphthalene	U		0.00100	0.00500	1	10/15/2021 04:54	WG1757362
Toluene	U		0.000278	0.00100	1	10/15/2021 04:54	WG1757362
Xylenes, Total	U		0.000174	0.00300	1	10/15/2021 04:54	WG1757362
(S) Toluene-d8	114			80.0-120		10/15/2021 04:54	WG1757362
(S) 4-Bromofluorobenzene	98.4			77.0-126		10/15/2021 04:54	WG1757362
(S) 1,2-Dichloroethane-d4	102			70.0-130		10/15/2021 04:54	WG1757362

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(WY) Diesel Range Organics	U		0.0294	0.100	1	10/18/2021 01:47	WG1757823
(S) o-Terphenyl	75.8			52.0-156		10/18/2021 01:47	WG1757823

⁷ GI⁸ Al⁹ Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
TPH (GC/MS) Low Fraction	1.00	J	0.540	2.50	5	10/19/2021 14:48	WG1759103	¹ Cp
Benzene	0.237		0.000471	0.00500	5	10/19/2021 14:48	WG1759103	² Tc
Ethylbenzene	0.00154		0.000137	0.00100	1	10/15/2021 05:14	WG1757362	³ Ss
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/15/2021 05:14	WG1757362	⁴ Cn
Naphthalene	U		0.00100	0.00500	1	10/15/2021 05:14	WG1757362	⁵ Sr
Toluene	0.00752		0.000278	0.00100	1	10/15/2021 05:14	WG1757362	⁶ Qc
Xylenes, Total	0.0413		0.000174	0.00300	1	10/15/2021 05:14	WG1757362	⁷ Gl
(S) Toluene-d8	107			80.0-120		10/15/2021 05:14	WG1757362	⁸ Al
(S) Toluene-d8	114			80.0-120		10/19/2021 14:48	WG1759103	
(S) 4-Bromofluorobenzene	93.8			77.0-126		10/15/2021 05:14	WG1757362	
(S) 4-Bromofluorobenzene	97.1			77.0-126		10/19/2021 14:48	WG1759103	
(S) 1,2-Dichloroethane-d4	101			70.0-130		10/15/2021 05:14	WG1757362	
(S) 1,2-Dichloroethane-d4	109			70.0-130		10/19/2021 14:48	WG1759103	

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
(WY) Diesel Range Organics	U		0.0294	0.100	1	10/18/2021 02:07	WG1757823	
(S) o-Terphenyl	83.7			52.0-156		10/18/2021 02:07	WG1757823	⁹ Sc

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Ferrous Iron	12.0	T8	0.450	1.50	30	10/16/2021 15:55	WG1756874

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfate	6.26		0.594	5.00	1	10/14/2021 12:53	WG1756392

Metals (ICP) by Method 6010B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Iron,Dissolved	U		0.0180	0.100	1	10/14/2021 17:41	WG1756817
Manganese,Dissolved	0.730		0.000934	0.0100	1	10/14/2021 17:41	WG1756817

⁶Qc⁷Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	7.68	J	2.70	12.5	25	10/19/2021 15:09	WG1759103
Benzene	1.86		0.00235	0.0250	25	10/15/2021 06:33	WG1757362
Ethylbenzene	0.386		0.00343	0.0250	25	10/15/2021 06:33	WG1757362
Methyl tert-butyl ether	U		0.00253	0.0250	25	10/15/2021 06:33	WG1757362
Naphthalene	0.0730	J	0.0250	0.125	25	10/15/2021 06:33	WG1757362
Toluene	0.253		0.00695	0.0250	25	10/15/2021 06:33	WG1757362
Xylenes, Total	2.27		0.00435	0.0750	25	10/15/2021 06:33	WG1757362
(S) Toluene-d8	106			80.0-120		10/15/2021 06:33	WG1757362
(S) Toluene-d8	112			80.0-120		10/19/2021 15:09	WG1759103
(S) 4-Bromofluorobenzene	95.6			77.0-126		10/15/2021 06:33	WG1757362
(S) 4-Bromofluorobenzene	100			77.0-126		10/19/2021 15:09	WG1759103
(S) 1,2-Dichloroethane-d4	99.9			70.0-130		10/15/2021 06:33	WG1757362
(S) 1,2-Dichloroethane-d4	111			70.0-130		10/19/2021 15:09	WG1759103

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	0.784		0.0294	0.100	1	10/18/2021 02:27	WG1757823
(S) o-Terphenyl	89.5			52.0-156		10/18/2021 02:27	WG1757823

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Ferrous Iron	9.78	T8	0.450	1.50	30	10/16/2021 15:55	WG1756874

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfate	10.1		0.594	5.00	1	10/14/2021 13:09	WG1756392

Metals (ICP) by Method 6010B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Iron,Dissolved	U		0.0180	0.100	1	10/14/2021 17:44	WG1756817
Manganese,Dissolved	0.942		0.000934	0.0100	1	10/14/2021 17:44	WG1756817

⁶ Qc⁷ GI

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	11.6	J	2.70	12.5	25	10/19/2021 15:29	WG1759103
Benzene	3.04		0.00235	0.0250	25	10/19/2021 15:29	WG1759103
Ethylbenzene	0.593		0.00137	0.0100	10	10/15/2021 06:53	WG1757362
Methyl tert-butyl ether	U		0.00101	0.0100	10	10/15/2021 06:53	WG1757362
Naphthalene	0.0762		0.0100	0.0500	10	10/15/2021 06:53	WG1757362
Toluene	0.319		0.00278	0.0100	10	10/15/2021 06:53	WG1757362
Xylenes, Total	1.50		0.00174	0.0300	10	10/15/2021 06:53	WG1757362
(S) Toluene-d8	107			80.0-120		10/15/2021 06:53	WG1757362
(S) Toluene-d8	114			80.0-120		10/19/2021 15:29	WG1759103
(S) 4-Bromofluorobenzene	103			77.0-126		10/15/2021 06:53	WG1757362
(S) 4-Bromofluorobenzene	102			77.0-126		10/19/2021 15:29	WG1759103
(S) 1,2-Dichloroethane-d4	92.1			70.0-130		10/15/2021 06:53	WG1757362
(S) 1,2-Dichloroethane-d4	110			70.0-130		10/19/2021 15:29	WG1759103

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	0.861		0.0294	0.100	1	10/18/2021 02:47	WG1757823
(S) o-Terphenyl	87.4			52.0-156		10/18/2021 02:47	WG1757823

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Ferrous Iron	0.0560	T8	0.0150	0.0500	1	10/16/2021 15:56	WG1756874

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfate	30.4		0.594	5.00	1	10/14/2021 13:25	WG1756392

Metals (ICP) by Method 6010B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Iron,Dissolved	U		0.0180	0.100	1	10/14/2021 17:46	WG1756817
Manganese,Dissolved	2.13		0.000934	0.0100	1	10/14/2021 17:46	WG1756817

³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	0.598		0.108	0.500	1	10/19/2021 13:47	WG1759103
Benzene	0.132		0.0000941	0.00100	1	10/19/2021 13:47	WG1759103
Ethylbenzene	0.0868		0.000137	0.00100	1	10/19/2021 13:47	WG1759103
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/19/2021 13:47	WG1759103
Naphthalene	0.00653	J3	0.00100	0.00500	1	10/19/2021 13:47	WG1759103
Toluene	0.00223		0.000278	0.00100	1	10/19/2021 13:47	WG1759103
Xylenes, Total	0.00159	J	0.000174	0.00300	1	10/19/2021 13:47	WG1759103
(S) Toluene-d8	113			80.0-120		10/19/2021 13:47	WG1759103
(S) 4-Bromofluorobenzene	98.2			77.0-126		10/19/2021 13:47	WG1759103
(S) 1,2-Dichloroethane-d4	110			70.0-130		10/19/2021 13:47	WG1759103

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	0.117		0.0294	0.100	1	10/18/2021 10:15	WG1757823
(S) o-Terphenyl	86.8			52.0-156		10/18/2021 10:15	WG1757823

DUP#1

Collected date/time: 10/05/21 00:00

SAMPLE RESULTS - 12

L1415684

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/MS) Low Fraction	11.1		2.16	10.0	20	10/19/2021 15:49	WG1759103
Benzene	1.99		0.00188	0.0200	20	10/19/2021 15:49	WG1759103
Ethylbenzene	0.508		0.00274	0.0200	20	10/19/2021 15:49	WG1759103
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/15/2021 05:34	WG1757362
Naphthalene	0.0567		0.00100	0.00500	1	10/15/2021 05:34	WG1757362
Toluene	0.319		0.00556	0.0200	20	10/19/2021 15:49	WG1759103
Xylenes, Total	2.83		0.00348	0.0600	20	10/19/2021 15:49	WG1759103
(S) Toluene-d8	103			80.0-120		10/15/2021 05:34	WG1757362
(S) Toluene-d8	114			80.0-120		10/19/2021 15:49	WG1759103
(S) 4-Bromofluorobenzene	106			77.0-126		10/15/2021 05:34	WG1757362
(S) 4-Bromofluorobenzene	100			77.0-126		10/19/2021 15:49	WG1759103
(S) 1,2-Dichloroethane-d4	106			70.0-130		10/15/2021 05:34	WG1757362
(S) 1,2-Dichloroethane-d4	107			70.0-130		10/19/2021 15:49	WG1759103

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Ferrous Iron	0.465	T8	0.0150	0.0500	1	10/16/2021 15:57	WG1756874

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfate	16.2		0.594	5.00	1	10/14/2021 14:45	WG1756392

Metals (ICP) by Method 6010B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Iron,Dissolved	U		0.0180	0.100	1	10/14/2021 17:49	WG1756817
Manganese,Dissolved	1.31		0.000934	0.0100	1	10/14/2021 17:49	WG1756817

⁶Qc⁷Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	10/19/2021 14:08	WG1759103
Benzene	0.00126		0.0000941	0.00100	1	10/19/2021 14:08	WG1759103
Ethylbenzene	0.00148		0.000137	0.00100	1	10/19/2021 14:08	WG1759103
Methyl tert-butyl ether	0.000205	J	0.000101	0.00100	1	10/19/2021 14:08	WG1759103
Naphthalene	0.00195	JJ3	0.00100	0.00500	1	10/19/2021 14:08	WG1759103
Toluene	U		0.000278	0.00100	1	10/19/2021 14:08	WG1759103
Xylenes, Total	0.000354	J	0.000174	0.00300	1	10/19/2021 14:08	WG1759103
(S) Toluene-d8	113			80.0-120		10/19/2021 14:08	WG1759103
(S) 4-Bromofluorobenzene	99.4			77.0-126		10/19/2021 14:08	WG1759103
(S) 1,2-Dichloroethane-d4	110			70.0-130		10/19/2021 14:08	WG1759103

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	U		0.0294	0.100	1	10/14/2021 17:56	WG1757580
(S) o-Terphenyl	118			52.0-156		10/14/2021 17:56	WG1757580

WG1756874

Wet Chemistry by Method 3500Fe B-2011

QUALITY CONTROL SUMMARY

[L1415684-03,04,09,10,11,13](#)

Method Blank (MB)

(MB) R3717356-1 10/16/21 15:47

Analyst	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Ferrous Iron	U		0.0150	0.0500

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L141552-03 Original Sample (OS) • Duplicate (DUP)

(OS) L141552-03 10/16/21 15:51 • (DUP) R3717356-3 10/16/21 15:51

Analyst	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Ferrous Iron	U	U	1	0.000		20

L1415793-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1415793-03 10/16/21 16:00 • (DUP) R3717356-6 10/16/21 16:01

Analyst	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Ferrous Iron	0.0510	0.0500	1	1.98		20

Laboratory Control Sample (LCS)

(LCS) R3717356-2 10/16/21 15:47

Analyst	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ferrous Iron	1.00	0.997	99.7	85.0-115	

L141552-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L141552-03 10/16/21 15:51 • (MS) R3717356-4 10/16/21 15:52 • (MSD) R3717356-5 10/16/21 15:52

Analyst	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Ferrous Iron	1.00	U	1.01	0.992	101	99.2	1	80.0-120			1.50	20

WG1756392

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1415684-03,04,09,10,11,13

Method Blank (MB)

(MB) R3716774-1 10/14/21 10:42

Analyst	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Sulfate	U		0.594	5.00

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1415684-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1415684-03 10/14/21 12:06 • (DUP) R3716774-3 10/14/21 12:21

Analyst	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Sulfate	14.6	14.5	1	0.120		15

L1414978-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1414978-08 10/14/21 22:15 • (DUP) R3716774-8 10/14/21 22:31

Analyst	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Sulfate	3900	3930	100	0.907		15

Laboratory Control Sample (LCS)

(LCS) R3716774-2 10/14/21 10:58

Analyst	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Sulfate	40.0	39.5	98.8	80.0-120	

L1415684-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1415684-11 10/14/21 13:25 • (MS) R3716774-4 10/14/21 13:41 • (MSD) R3716774-5 10/14/21 13:57

Analyst	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Sulfate	50.0	30.4	82.9	84.9	105	109	1	80.0-120			2.30	15

L1414978-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1414978-10 10/14/21 18:15 • (MS) R3716774-7 10/14/21 18:31

Analyst	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Sulfate	50.0	1380	1320	0.000	1	80.0-120	EV

ACCOUNT:

Terracon - Salt Lake City, UT

PROJECT:

61197153 TASK 9.2

SDG:

L1415684

DATE/TIME:

10/20/21 12:16

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WG1756817

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

[L1415684-03,04,09,10,11,13](#)

Method Blank (MB)

(MB) R3716699-1 10/14/21 17:06

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Iron,Dissolved	U		0.0180	0.100
Manganese,Dissolved	U		0.000934	0.0100

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3716699-2 10/14/21 17:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Iron,Dissolved	10.0	9.52	95.2	80.0-120	
Manganese,Dissolved	1.00	0.968	96.8	80.0-120	

L1414834-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1414834-01 10/14/21 17:11 • (MS) R3716699-4 10/14/21 17:16 • (MSD) R3716699-5 10/14/21 17:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Iron,Dissolved	10.0	0.0304	9.59	9.61	95.6	95.8	1	75.0-125			0.267	20
Manganese,Dissolved	1.00	0.00259	0.967	0.965	96.5	96.2	1	75.0-125			0.274	20

QUALITY CONTROL SUMMARY

[L1415684-01,02,03,04,05,06,07,08,09,10,12](#)

Method Blank (MB)

(MB) R3717977-4 10/15/21 01:56

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
TPH (GC/MS) Low Fraction	U		0.108	0.500
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	109		80.0-120	
(S) 4-Bromofluorobenzene	97.7		77.0-126	
(S) 1,2-Dichloroethane-d4	102		70.0-130	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3717977-1 10/15/21 00:18 • (LCSD) R3717977-2 10/15/21 00:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Benzene	0.00500	0.00491	0.00533	98.2	107	70.0-123			8.20	20
Ethylbenzene	0.00500	0.00464	0.00520	92.8	104	79.0-123			11.4	20
Methyl tert-butyl ether	0.00500	0.00532	0.00537	106	107	68.0-125			0.935	20
Naphthalene	0.00500	0.00632	0.00550	126	110	54.0-135			13.9	20
Toluene	0.00500	0.00483	0.00509	96.6	102	79.0-120			5.24	20
Xylenes, Total	0.0150	0.0140	0.0149	93.3	99.3	79.0-123			6.23	20
(S) Toluene-d8				101	105	80.0-120				
(S) 4-Bromofluorobenzene					97.3	77.0-126				
(S) 1,2-Dichloroethane-d4					105	70.0-130				

Laboratory Control Sample (LCS)

(LCS) R3717977-3 10/15/21 00:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
TPH (GC/MS) Low Fraction	5.00	6.54	131	66.0-132	
(S) Toluene-d8			108	80.0-120	
(S) 4-Bromofluorobenzene			109	77.0-126	
(S) 1,2-Dichloroethane-d4			103	70.0-130	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

QUALITY CONTROL SUMMARY

[L1415684-05,08,09,10,11,12,13](#)

Method Blank (MB)

(MB) R3718733-4 10/19/21 13:27

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l	¹ Cp
TPH (GC/MS) Low Fraction	U		0.108	0.500	
Benzene	U		0.0000941	0.00100	
Ethylbenzene	U		0.000137	0.00100	
Methyl tert-butyl ether	U		0.000101	0.00100	
Naphthalene	U		0.00100	0.00500	
Toluene	U		0.000278	0.00100	
Xylenes, Total	U		0.000174	0.00300	
(S) Toluene-d8	117		80.0-120		
(S) 4-Bromofluorobenzene	99.2		77.0-126		
(S) 1,2-Dichloroethane-d4	112		70.0-130		

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3718733-1 10/19/21 10:04 • (LCSD) R3718733-2 10/19/21 10:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Benzene	0.00500	0.00499	0.00472	99.8	94.4	70.0-123			5.56	20
Ethylbenzene	0.00500	0.00539	0.00558	108	112	79.0-123			3.46	20
Methyl tert-butyl ether	0.00500	0.00454	0.00472	90.8	94.4	68.0-125			3.89	20
Naphthalene	0.00500	0.00407	0.00508	81.4	102	54.0-135	<u>J3</u>		22.1	20
Toluene	0.00500	0.00521	0.00517	104	103	79.0-120			0.771	20
Xylenes, Total	0.0150	0.0155	0.0160	103	107	79.0-123			3.17	20
(S) Toluene-d8				112	113	80.0-120				
(S) 4-Bromofluorobenzene					97.6	77.0-126				
(S) 1,2-Dichloroethane-d4					119	70.0-130				

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3718733-3 10/19/21 10:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
TPH (GC/MS) Low Fraction	5.00	5.75	115	66.0-132	
(S) Toluene-d8			111	80.0-120	
(S) 4-Bromofluorobenzene			112	77.0-126	
(S) 1,2-Dichloroethane-d4			117	70.0-130	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

WG1757580

Semi-Volatile Organic Compounds (GC) by Method 8015C

QUALITY CONTROL SUMMARY

[L1415684-01,02,03,04,13](#)

Method Blank (MB)

(MB) R3716693-1 10/14/21 15:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
(WY) Diesel Range Organics	U		0.0294	0.100
(S) o-Terphenyl	94.5			52.0-156

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3716693-2 10/14/21 15:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
(WY) Diesel Range Organics	1.50	1.51	101	50.0-150	
(S) o-Terphenyl		105		52.0-156	

WG1757823

Semi-Volatile Organic Compounds (GC) by Method 8015C

QUALITY CONTROL SUMMARY

[L1415684-05,06,07,08,09,10,11](#)

Method Blank (MB)

(MB) R3717659-1 10/18/21 00:02

Analyst	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
(WY) Diesel Range Organics	U		0.0294	0.100
(S) o-Terphenyl	82.5			52.0-156

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3717659-2 10/18/21 00:22 • (LCSD) R3717659-3 10/18/21 00:42

Analyst	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits %
(WY) Diesel Range Organics	1.50	1.18	1.20	78.7	80.0	50.0-150			1.68	20
(S) o-Terphenyl			73.0	54.0	52.0-156					

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.	¹ Cp
RDL	Reported Detection Limit.	² Tc
Rec.	Recovery.	³ Ss
RPD	Relative Percent Difference.	⁴ Cn
SDG	Sample Delivery Group.	⁵ Sr
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.	⁶ Qc
U	Not detected at the Reporting Limit (or MDL where applicable).	⁷ Gl
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	⁸ Al
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.	⁹ Sc
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.	
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.	
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.	
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.	
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.	
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.	
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.	
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.	
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.	
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.	

Qualifier Description

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey—NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio—VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ANALYTICAL REPORT

October 21, 2021

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷GI

⁸AI

⁹SC

Terracon - Salt Lake City, UT

Sample Delivery Group: L1416080
Samples Received: 10/09/2021
Project Number: 61197153
Description: Triple Stop Chevron

Report To: Curt Stripeika
6949 South High Tech Drive
Midvale, UT 84047

Entire Report Reviewed By:

Chris Ward
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

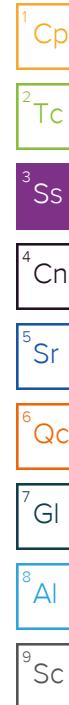
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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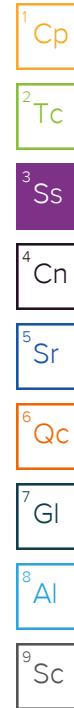
SAMPLE SUMMARY

			Collected by Roy McDonald	Collected date/time 10/07/21 09:18	Received date/time 10/09/21 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Fe B-2011	WG1759058	5	10/19/21 16:24	10/19/21 16:24	ARM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1758287	1	10/16/21 20:49	10/16/21 20:49	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1756818	1	10/14/21 08:25	10/14/21 19:06	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758248	1	10/16/21 15:05	10/16/21 15:05	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	2	10/17/21 08:38	10/18/21 03:28	DMG	Mt. Juliet, TN
			Collected by Roy McDonald	Collected date/time 10/07/21 10:36	Received date/time 10/09/21 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Fe B-2011	WG1759058	5	10/19/21 16:25	10/19/21 16:25	ARM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1758287	1	10/16/21 21:17	10/16/21 21:17	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1756818	1	10/14/21 08:25	10/14/21 19:09	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758248	1	10/16/21 15:26	10/16/21 15:26	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 03:48	DMG	Mt. Juliet, TN
			Collected by Roy McDonald	Collected date/time 10/07/21 11:43	Received date/time 10/09/21 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Fe B-2011	WG1759058	5	10/19/21 16:25	10/19/21 16:25	ARM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1758287	1	10/16/21 21:32	10/16/21 21:32	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1756818	1	10/14/21 08:25	10/14/21 19:12	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758248	1	10/16/21 15:46	10/16/21 15:46	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758809	200	10/18/21 18:06	10/18/21 18:06	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 04:08	DMG	Mt. Juliet, TN
			Collected by Roy McDonald	Collected date/time 10/07/21 13:32	Received date/time 10/09/21 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Fe B-2011	WG1759058	1	10/19/21 16:26	10/19/21 16:26	ARM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1758287	1	10/16/21 21:46	10/16/21 21:46	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1756818	1	10/14/21 08:25	10/14/21 19:15	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758248	1	10/16/21 16:06	10/16/21 16:06	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758809	1	10/18/21 15:10	10/18/21 15:10	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 04:28	DMG	Mt. Juliet, TN
			Collected by Roy McDonald	Collected date/time 10/07/21 14:40	Received date/time 10/09/21 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758248	1	10/16/21 16:27	10/16/21 16:27	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758809	1	10/18/21 16:04	10/18/21 16:04	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 04:48	DMG	Mt. Juliet, TN



SAMPLE SUMMARY

			Collected by	Collected date/time	Received date/time	
			Roy McDonald	10/07/21 15:30	10/09/21 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1759812	1	10/20/21 04:50	10/20/21 04:50	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 05:08	DMG	Mt. Juliet, TN
MW-23 L1416080-06 GW			Collected by	Collected date/time	Received date/time	
			Roy McDonald	10/07/21 16:25	10/09/21 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Fe B-2011	WG1759058	10	10/19/21 16:26	10/19/21 16:26	ARM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1758287	1	10/16/21 22:01	10/16/21 22:01	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1756818	1	10/14/21 08:25	10/14/21 19:24	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758248	25	10/16/21 18:08	10/16/21 18:08	ACG	Mt. Juliet, TN
MW-24 L1416080-07 GW			Collected by	Collected date/time	Received date/time	
			Roy McDonald	10/07/21 15:46	10/09/21 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758248	1	10/16/21 16:47	10/16/21 16:47	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 05:28	DMG	Mt. Juliet, TN
DUP #2 L1416080-09 GW			Collected by	Collected date/time	Received date/time	
			Roy McDonald	10/07/21 00:00	10/09/21 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758248	1	10/16/21 17:07	10/16/21 17:07	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758809	20	10/18/21 18:27	10/18/21 18:27	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 05:48	DMG	Mt. Juliet, TN
MW-13 L1416080-10 GW			Collected by	Collected date/time	Received date/time	
			Roy McDonald	10/08/21 09:05	10/09/21 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 3500Fe B-2011	WG1759058	5	10/19/21 16:27	10/19/21 16:27	ARM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1758287	1	10/16/21 22:44	10/16/21 22:44	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1756818	1	10/14/21 08:25	10/14/21 19:26	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758248	50	10/16/21 18:29	10/16/21 18:29	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	2	10/17/21 08:38	10/18/21 06:08	DMG	Mt. Juliet, TN
RW-2 L1416080-11 GW			Collected by	Collected date/time	Received date/time	
			Roy McDonald	10/08/21 10:08	10/09/21 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758248	100	10/16/21 18:49	10/16/21 18:49	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	2	10/17/21 08:38	10/18/21 06:28	DMG	Mt. Juliet, TN



SAMPLE SUMMARY

MW-14 L1416080-12 GW			Collected by Roy McDonald	Collected date/time 10/08/21 11:05	Received date/time 10/09/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758248	1	10/16/21 17:28	10/16/21 17:28	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758809	1	10/18/21 16:25	10/18/21 16:25	JCP
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	1	10/17/21 08:38	10/18/21 06:48	DMG
MW-10 L1416080-13 GW			Collected by Roy McDonald	Collected date/time 10/08/21 12:00	Received date/time 10/09/21 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758248	50	10/16/21 19:10	10/16/21 19:10	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG1757823	2	10/17/21 08:38	10/18/21 07:08	DMG

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

CASE NARRATIVE

Unless qualified or noted within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ Sc

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Batch	Method	Lab Sample ID
WG1757823	8015C	L1416080-11

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG1759058	3500Fe B-2011	L1416080-01, 02, 03, 04, 07, 10

Wet Chemistry by Method 9056A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1758287	(MS) R3717703-4, (MSD) R3717703-5	Sulfate

Semi-Volatile Organic Compounds (GC) by Method 8015C

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG1757823	o-Terphenyl	L1416080-01, 11

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Ferrous Iron	13.0	T8	0.0750	0.250	5	10/19/2021 16:24	WG1759058

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfate	33.4		0.594	5.00	1	10/16/2021 20:49	WG1758287

Metals (ICP) by Method 6010B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Iron,Dissolved	U		0.0180	0.100	1	10/14/2021 19:06	WG1756818
Manganese,Dissolved	0.441		0.000934	0.0100	1	10/14/2021 19:06	WG1756818

³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	0.135	J	0.108	0.500	1	10/16/2021 15:05	WG1758248
Benzene	0.0346		0.0000941	0.00100	1	10/16/2021 15:05	WG1758248
Ethylbenzene	0.00186		0.000137	0.00100	1	10/16/2021 15:05	WG1758248
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/16/2021 15:05	WG1758248
Naphthalene	0.0283		0.00100	0.00500	1	10/16/2021 15:05	WG1758248
Toluene	0.000321	J	0.000278	0.00100	1	10/16/2021 15:05	WG1758248
Xylenes, Total	0.00284	J	0.000174	0.00300	1	10/16/2021 15:05	WG1758248
(S) Toluene-d8	113			80.0-120		10/16/2021 15:05	WG1758248
(S) 4-Bromofluorobenzene	102			77.0-126		10/16/2021 15:05	WG1758248
(S) 1,2-Dichloroethane-d4	113			70.0-130		10/16/2021 15:05	WG1758248

⁹Sc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	U		0.0588	0.200	2	10/18/2021 03:28	WG1757823
(S) o-Terphenyl	48.3	J2		52.0-156		10/18/2021 03:28	WG1757823

Sample Narrative:

L1416080-01 WG1757823: Surrogate failure due to matrix interference

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Ferrous Iron	7.84	T8	0.0750	0.250	5	10/19/2021 16:25	WG1759058

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfate	33.8		0.594	5.00	1	10/16/2021 21:17	WG1758287

Metals (ICP) by Method 6010B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Iron,Dissolved	U		0.0180	0.100	1	10/14/2021 19:09	WG1756818
Manganese,Dissolved	0.699		0.000934	0.0100	1	10/14/2021 19:09	WG1756818

⁶ Qc⁷ GI

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	1.11		0.108	0.500	1	10/16/2021 15:26	WG1758248
Benzene	0.191		0.0000941	0.00100	1	10/16/2021 15:26	WG1758248
Ethylbenzene	0.0640		0.000137	0.00100	1	10/16/2021 15:26	WG1758248
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/16/2021 15:26	WG1758248
Naphthalene	0.0134		0.00100	0.00500	1	10/16/2021 15:26	WG1758248
Toluene	0.0230		0.000278	0.00100	1	10/16/2021 15:26	WG1758248
Xylenes, Total	0.245		0.000174	0.00300	1	10/16/2021 15:26	WG1758248
(S) Toluene-d8	112			80.0-120		10/16/2021 15:26	WG1758248
(S) 4-Bromofluorobenzene	98.6			77.0-126		10/16/2021 15:26	WG1758248
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/16/2021 15:26	WG1758248

⁸ Al

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	0.0794	J	0.0294	0.100	1	10/18/2021 03:48	WG1757823
(S) o-Terphenyl	63.7			52.0-156		10/18/2021 03:48	WG1757823

⁹ Sc

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Ferrous Iron	7.02	T8	0.0750	0.250	5	10/19/2021 16:25	WG1759058

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfate	14.1		0.594	5.00	1	10/16/2021 21:32	WG1758287

Metals (ICP) by Method 6010B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Iron,Dissolved	U		0.0180	0.100	1	10/14/2021 19:12	WG1756818
Manganese,Dissolved	1.03		0.000934	0.0100	1	10/14/2021 19:12	WG1756818

⁶ Qc⁷ GI

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	13.3		0.108	0.500	1	10/16/2021 15:46	WG1758248
Benzene	6.57		0.0188	0.200	200	10/18/2021 18:06	WG1758809
Ethylbenzene	0.576		0.0274	0.200	200	10/18/2021 18:06	WG1758809
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/16/2021 15:46	WG1758248
Naphthalene	0.0593		0.00100	0.00500	1	10/16/2021 15:46	WG1758248
Toluene	1.06		0.0556	0.200	200	10/18/2021 18:06	WG1758809
Xylenes, Total	1.62		0.0348	0.600	200	10/18/2021 18:06	WG1758809
(S) Toluene-d8	112			80.0-120		10/16/2021 15:46	WG1758248
(S) Toluene-d8	96.8			80.0-120		10/18/2021 18:06	WG1758809
(S) 4-Bromofluorobenzene	101			77.0-126		10/16/2021 15:46	WG1758248
(S) 4-Bromofluorobenzene	89.6			77.0-126		10/18/2021 18:06	WG1758809
(S) 1,2-Dichloroethane-d4	114			70.0-130		10/16/2021 15:46	WG1758248
(S) 1,2-Dichloroethane-d4	119			70.0-130		10/18/2021 18:06	WG1758809

⁸ Al

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	0.610		0.0294	0.100	1	10/18/2021 04:08	WG1757823
(S) o-Terphenyl	72.1			52.0-156		10/18/2021 04:08	WG1757823

⁹ Sc

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Ferrous Iron	U	T8	0.0150	0.0500	1	10/19/2021 16:26	WG1759058

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfate	56.1		0.594	5.00	1	10/16/2021 21:46	WG1758287

Metals (ICP) by Method 6010B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Iron,Dissolved	U		0.0180	0.100	1	10/14/2021 19:15	WG1756818
Manganese,Dissolved	U		0.000934	0.0100	1	10/14/2021 19:15	WG1756818

⁶Qc⁷Gl⁸Al⁹Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	10/16/2021 16:06	WG1758248
Benzene	U		0.0000941	0.00100	1	10/18/2021 15:10	WG1758809
Ethylbenzene	U		0.000137	0.00100	1	10/18/2021 15:10	WG1758809
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/16/2021 16:06	WG1758248
Naphthalene	0.0171		0.00100	0.00500	1	10/16/2021 16:06	WG1758248
Toluene	U		0.000278	0.00100	1	10/18/2021 15:10	WG1758809
Xylenes, Total	U		0.000174	0.00300	1	10/18/2021 15:10	WG1758809
(S) Toluene-d8	110			80.0-120		10/16/2021 16:06	WG1758248
(S) Toluene-d8	97.1			80.0-120		10/18/2021 15:10	WG1758809
(S) 4-Bromofluorobenzene	101			77.0-126		10/16/2021 16:06	WG1758248
(S) 4-Bromofluorobenzene	93.3			77.0-126		10/18/2021 15:10	WG1758809
(S) 1,2-Dichloroethane-d4	110			70.0-130		10/16/2021 16:06	WG1758248
(S) 1,2-Dichloroethane-d4	118			70.0-130		10/18/2021 15:10	WG1758809

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	U		0.0294	0.100	1	10/18/2021 04:28	WG1757823
(S) o-Terphenyl	64.2			52.0-156		10/18/2021 04:28	WG1757823

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/l		mg/l	mg/l			
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	10/16/2021 16:27	WG1758248
Benzene	0.000434	J	0.0000941	0.00100	1	10/18/2021 16:04	WG1758809
Ethylbenzene	0.00117		0.000137	0.00100	1	10/18/2021 16:04	WG1758809
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/16/2021 16:27	WG1758248
Naphthalene	0.00385	J	0.00100	0.00500	1	10/16/2021 16:27	WG1758248
Toluene	U		0.000278	0.00100	1	10/18/2021 16:04	WG1758809
Xylenes, Total	0.000651	J	0.000174	0.00300	1	10/18/2021 16:04	WG1758809
(S) Toluene-d8	114			80.0-120		10/16/2021 16:27	WG1758248
(S) Toluene-d8	99.4			80.0-120		10/18/2021 16:04	WG1758809
(S) 4-Bromofluorobenzene	103			77.0-126		10/16/2021 16:27	WG1758248
(S) 4-Bromofluorobenzene	90.1			77.0-126		10/18/2021 16:04	WG1758809
(S) 1,2-Dichloroethane-d4	110			70.0-130		10/16/2021 16:27	WG1758248
(S) 1,2-Dichloroethane-d4	117			70.0-130		10/18/2021 16:04	WG1758809

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/l		mg/l	mg/l			
(WY) Diesel Range Organics	U		0.0294	0.100	1	10/18/2021 04:48	WG1757823
(S) o-Terphenyl	88.9			52.0-156		10/18/2021 04:48	WG1757823

MW-23

Collected date/time: 10/07/21 15:30

SAMPLE RESULTS - 06

L1416080

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	0.116	J	0.108	0.500	1	10/20/2021 04:50	WG1759812
Benzene	0.00368		0.0000941	0.00100	1	10/20/2021 04:50	WG1759812
Ethylbenzene	0.0272		0.000137	0.00100	1	10/20/2021 04:50	WG1759812
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/20/2021 04:50	WG1759812
Naphthalene	0.00168	J	0.00100	0.00500	1	10/20/2021 04:50	WG1759812
Toluene	U		0.000278	0.00100	1	10/20/2021 04:50	WG1759812
Xylenes, Total	0.00234	J	0.000174	0.00300	1	10/20/2021 04:50	WG1759812
(S) Toluene-d8	105			80.0-120		10/20/2021 04:50	WG1759812
(S) 4-Bromofluorobenzene	96.2			77.0-126		10/20/2021 04:50	WG1759812
(S) 1,2-Dichloroethane-d4	103			70.0-130		10/20/2021 04:50	WG1759812

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	0.0533	J	0.0294	0.100	1	10/18/2021 05:08	WG1757823
(S) o-Terphenyl	84.7			52.0-156		10/18/2021 05:08	WG1757823

⁷ GI⁸ Al⁹ Sc

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Ferrous Iron	18.0	T8	0.150	0.500	10	10/19/2021 16:26	WG1759058

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfate	16.2		0.594	5.00	1	10/16/2021 22:01	WG1758287

Metals (ICP) by Method 6010B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Iron,Dissolved	0.274		0.0180	0.100	1	10/14/2021 19:24	WG1756818
Manganese,Dissolved	0.164		0.000934	0.0100	1	10/14/2021 19:24	WG1756818

³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	3.69	J	2.70	12.5	25	10/16/2021 18:08	WG1758248
Benzene	0.0438		0.00235	0.0250	25	10/16/2021 18:08	WG1758248
Ethylbenzene	0.548		0.00343	0.0250	25	10/16/2021 18:08	WG1758248
Methyl tert-butyl ether	U		0.00253	0.0250	25	10/16/2021 18:08	WG1758248
Naphthalene	0.0649	J	0.0250	0.125	25	10/16/2021 18:08	WG1758248
Toluene	0.0212	J	0.00695	0.0250	25	10/16/2021 18:08	WG1758248
Xylenes, Total	1.70		0.00435	0.0750	25	10/16/2021 18:08	WG1758248
(S) Toluene-d8	114			80.0-120		10/16/2021 18:08	WG1758248
(S) 4-Bromofluorobenzene	103			77.0-126		10/16/2021 18:08	WG1758248
(S) 1,2-Dichloroethane-d4	109			70.0-130		10/16/2021 18:08	WG1758248

MW-22

Collected date/time: 10/07/21 15:46

SAMPLE RESULTS - 08

L1416080

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	0.342	J	0.108	0.500	1	10/16/2021 16:47	WG1758248
Benzene	0.00327		0.0000941	0.00100	1	10/16/2021 16:47	WG1758248
Ethylbenzene	0.00528		0.000137	0.00100	1	10/16/2021 16:47	WG1758248
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/16/2021 16:47	WG1758248
Naphthalene	0.00205	J	0.00100	0.00500	1	10/16/2021 16:47	WG1758248
Toluene	0.00103		0.000278	0.00100	1	10/16/2021 16:47	WG1758248
Xylenes, Total	0.00749		0.000174	0.00300	1	10/16/2021 16:47	WG1758248
(S) Toluene-d8	112			80.0-120		10/16/2021 16:47	WG1758248
(S) 4-Bromofluorobenzene	103			77.0-126		10/16/2021 16:47	WG1758248
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/16/2021 16:47	WG1758248

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	0.0847	J	0.0294	0.100	1	10/18/2021 05:28	WG1757823
(S) o-Terphenyl	92.6			52.0-156		10/18/2021 05:28	WG1757823

⁷ GI⁸ Al⁹ Sc

DUP #2

Collected date/time: 10/07/21 00:00

SAMPLE RESULTS - 09

L1416080

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
TPH (GC/MS) Low Fraction	4.84		0.108	0.500	1	10/16/2021 17:07	WG1758248	¹ Cp
Benzene	0.0400		0.0000941	0.00100	1	10/16/2021 17:07	WG1758248	² Tc
Ethylbenzene	0.483		0.00274	0.0200	20	10/18/2021 18:27	WG1758809	³ Ss
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/16/2021 17:07	WG1758248	⁴ Cn
Naphthalene	0.0467		0.00100	0.00500	1	10/16/2021 17:07	WG1758248	⁵ Sr
Toluene	0.0199		0.000278	0.00100	1	10/16/2021 17:07	WG1758248	⁶ Qc
Xylenes, Total	1.58		0.00348	0.0600	20	10/18/2021 18:27	WG1758809	⁷ Gl
(S) Toluene-d8	111			80.0-120		10/16/2021 17:07	WG1758248	⁸ Al
(S) Toluene-d8	98.2			80.0-120		10/18/2021 18:27	WG1758809	
(S) 4-Bromofluorobenzene	101			77.0-126		10/16/2021 17:07	WG1758248	
(S) 4-Bromofluorobenzene	95.1			77.0-126		10/18/2021 18:27	WG1758809	
(S) 1,2-Dichloroethane-d4	111			70.0-130		10/16/2021 17:07	WG1758248	
(S) 1,2-Dichloroethane-d4	115			70.0-130		10/18/2021 18:27	WG1758809	

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
(WY) Diesel Range Organics	1.39		0.0294	0.100	1	10/18/2021 05:48	WG1757823	⁹ Sc
(S) o-Terphenyl	82.6			52.0-156		10/18/2021 05:48	WG1757823	

Wet Chemistry by Method 3500Fe B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Ferrous Iron	11.4	T8	0.0750	0.250	5	10/19/2021 16:27	WG1759058

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfate	12.4		0.594	5.00	1	10/16/2021 22:44	WG1758287

Metals (ICP) by Method 6010B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Iron,Dissolved	0.224		0.0180	0.100	1	10/14/2021 19:26	WG1756818
Manganese,Dissolved	0.443		0.000934	0.0100	1	10/14/2021 19:26	WG1756818

³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	9.96	J	5.40	25.0	50	10/16/2021 18:29	WG1758248
Benzene	0.0144	J	0.00471	0.0500	50	10/16/2021 18:29	WG1758248
Ethylbenzene	0.771		0.00685	0.0500	50	10/16/2021 18:29	WG1758248
Methyl tert-butyl ether	U		0.00505	0.0500	50	10/16/2021 18:29	WG1758248
Naphthalene	0.146	J	0.0500	0.250	50	10/16/2021 18:29	WG1758248
Toluene	0.214		0.0139	0.0500	50	10/16/2021 18:29	WG1758248
Xylenes, Total	4.83		0.00870	0.150	50	10/16/2021 18:29	WG1758248
(S) Toluene-d8	113			80.0-120		10/16/2021 18:29	WG1758248
(S) 4-Bromofluorobenzene	99.2			77.0-126		10/16/2021 18:29	WG1758248
(S) 1,2-Dichloroethane-d4	115			70.0-130		10/16/2021 18:29	WG1758248

⁹Sc

Sample Narrative:

L1416080-10 WG1758248: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	3.35		0.0588	0.200	2	10/18/2021 06:08	WG1757823
(S) o-Terphenyl	73.7			52.0-156		10/18/2021 06:08	WG1757823

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	31.2	J	10.8	50.0	100	10/16/2021 18:49	WG1758248
Benzene	0.982		0.00941	0.100	100	10/16/2021 18:49	WG1758248
Ethylbenzene	1.04		0.0137	0.100	100	10/16/2021 18:49	WG1758248
Methyl tert-butyl ether	U		0.0101	0.100	100	10/16/2021 18:49	WG1758248
Naphthalene	0.363	J	0.100	0.500	100	10/16/2021 18:49	WG1758248
Toluene	7.04		0.0278	0.100	100	10/16/2021 18:49	WG1758248
Xylenes, Total	7.95		0.0174	0.300	100	10/16/2021 18:49	WG1758248
(S) Toluene-d8	112			80.0-120		10/16/2021 18:49	WG1758248
(S) 4-Bromofluorobenzene	101			77.0-126		10/16/2021 18:49	WG1758248
(S) 1,2-Dichloroethane-d4	109			70.0-130		10/16/2021 18:49	WG1758248

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ Al⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	6.57		0.0588	0.200	2	10/18/2021 06:28	WG1757823
(S) o-Terphenyl	42.9	J2		52.0-156		10/18/2021 06:28	WG1757823

Sample Narrative:

L1416080-11 WG1757823: Surrogate failure due to matrix interference

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch	
	mg/l		mg/l	mg/l				
TPH (GC/MS) Low Fraction	U		0.108	0.500	1	10/16/2021 17:28	WG1758248	¹ Cp
Benzene	0.000383	J	0.0000941	0.00100	1	10/16/2021 17:28	WG1758248	² Tc
Ethylbenzene	U		0.000137	0.00100	1	10/18/2021 16:25	WG1758809	³ Ss
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/16/2021 17:28	WG1758248	⁴ Cn
Naphthalene	0.0130		0.00100	0.00500	1	10/16/2021 17:28	WG1758248	⁵ Sr
Toluene	U		0.000278	0.00100	1	10/16/2021 17:28	WG1758248	⁶ Qc
Xylenes, Total	U		0.000174	0.00300	1	10/18/2021 16:25	WG1758809	⁷ Gl
(S) Toluene-d8	111			80.0-120		10/16/2021 17:28	WG1758248	⁸ Al
(S) Toluene-d8	98.9			80.0-120		10/18/2021 16:25	WG1758809	
(S) 4-Bromofluorobenzene	99.0			77.0-126		10/16/2021 17:28	WG1758248	
(S) 4-Bromofluorobenzene	87.8			77.0-126		10/18/2021 16:25	WG1758809	
(S) 1,2-Dichloroethane-d4	111			70.0-130		10/16/2021 17:28	WG1758248	
(S) 1,2-Dichloroethane-d4	121			70.0-130		10/18/2021 16:25	WG1758809	⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch	
	mg/l		mg/l	mg/l				
(WY) Diesel Range Organics	U		0.0294	0.100	1	10/18/2021 06:48	WG1757823	
(S) o-Terphenyl	73.2			52.0-156		10/18/2021 06:48	WG1757823	

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/MS) Low Fraction	10.8	J	5.40	25.0	50	10/16/2021 19:10	WG1758248
Benzene	0.0741		0.00471	0.0500	50	10/16/2021 19:10	WG1758248
Ethylbenzene	0.309		0.00685	0.0500	50	10/16/2021 19:10	WG1758248
Methyl tert-butyl ether	U		0.00505	0.0500	50	10/16/2021 19:10	WG1758248
Naphthalene	0.153	J	0.0500	0.250	50	10/16/2021 19:10	WG1758248
Toluene	1.64		0.0139	0.0500	50	10/16/2021 19:10	WG1758248
Xylenes, Total	4.36		0.00870	0.150	50	10/16/2021 19:10	WG1758248
(S) Toluene-d8	114			80.0-120		10/16/2021 19:10	WG1758248
(S) 4-Bromofluorobenzene	101			77.0-126		10/16/2021 19:10	WG1758248
(S) 1,2-Dichloroethane-d4	111			70.0-130		10/16/2021 19:10	WG1758248

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc

Semi-Volatile Organic Compounds (GC) by Method 8015C

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(WY) Diesel Range Organics	1.68		0.0588	0.200	2	10/18/2021 07:08	WG1757823
(S) o-Terphenyl	76.8			52.0-156		10/18/2021 07:08	WG1757823

⁷ GI⁸ Al⁹ Sc

WG1759058

Wet Chemistry by Method 3500Fe B-2011

QUALITY CONTROL SUMMARY

[L1416080-01,02,03,04,07,10](#)

Method Blank (MB)

(MB) R3718508-1 10/19/21 15:47

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Ferrous Iron	U		0.0150	0.0500

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1416028-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1416028-02 10/19/21 16:01 • (DUP) R3718508-3 10/19/21 16:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Ferrous Iron	2.40	2.37	1	1.13		20

L1416028-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1416028-11 10/19/21 16:12 • (DUP) R3718508-6 10/19/21 16:13

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Ferrous Iron	0.138	0.116	1	17.3		20

Laboratory Control Sample (LCS)

(LCS) R3718508-2 10/19/21 15:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ferrous Iron	1.00	0.986	98.6	85.0-115	

L1416028-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1416028-10 10/19/21 16:12 • (MS) R3718508-4 10/19/21 16:12 • (MSD) R3718508-5 10/19/21 16:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Ferrous Iron	1.00	0.0350	0.984	0.979	94.9	94.4	1	80.0-120			0.509	20

WG1758287

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

[L1416080-01,02,03,04,07,10](#)

Method Blank (MB)

(MB) R3717703-1 10/16/21 15:01

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Sulfate	U		0.594	5.00

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1416858-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1416858-03 10/16/21 16:41 • (DUP) R3717703-3 10/16/21 16:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Sulfate	752	746	20	0.790		15

L1416858-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1416858-11 10/16/21 19:48 • (DUP) R3717703-7 10/16/21 22:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Sulfate	82.4	82.4	1	0.0390		15

Laboratory Control Sample (LCS)

(LCS) R3717703-2 10/16/21 15:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Sulfate	40.0	40.6	102	80.0-120	

L1416858-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1416858-08 10/16/21 19:05 • (MS) R3717703-4 10/16/21 19:19 • (MSD) R3717703-5 10/16/21 19:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Sulfate	50.0	85.4	119	120	66.8	68.9	1	80.0-120	<u>E J6</u>	<u>E J6</u>	0.875	15

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1416080-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1416080-01 10/16/21 20:49 • (MS) R3717703-6 10/16/21 21:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution %	Rec. Limits %	<u>MS Qualifier</u>
Sulfate	50.0	33.4	79.2	91.6	1	80.0-120	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

ACCOUNT:

Terracon - Salt Lake City, UT

PROJECT:

61197153

SDG:

L1416080

DATE/TIME:

10/21/21 16:50

PAGE:

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WG1756818

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

[L1416080-01,02,03,04,07,10](#)

Method Blank (MB)

(MB) R3716736-1 10/14/21 18:12

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Iron,Dissolved	U		0.0180	0.100
Manganese,Dissolved	U		0.000934	0.0100

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3716736-2 10/14/21 18:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Iron,Dissolved	10.0	9.38	93.8	80.0-120	
Manganese,Dissolved	1.00	0.933	93.3	80.0-120	

L1414553-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1414553-01 10/14/21 18:18 • (MS) R3716736-4 10/14/21 18:23 • (MSD) R3716736-5 10/14/21 18:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Iron,Dissolved	10.0	0.0493	9.36	9.27	93.2	92.2	1	75.0-125			0.986	20
Manganese,Dissolved	1.00	0.376	1.27	1.29	89.7	91.0	1	75.0-125			1.01	20

QUALITY CONTROL SUMMARY

[L1416080-01,02,03,04,05,07,08,09,10,11,12,13](#)

Method Blank (MB)

(MB) R3717691-3 10/16/21 10:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l	¹ Cp
TPH (GC/MS) Low Fraction	U		0.108	0.500	
Benzene	U		0.0000941	0.00100	
Ethylbenzene	U		0.000137	0.00100	
Methyl tert-butyl ether	U		0.000101	0.00100	
Naphthalene	U		0.00100	0.00500	
Toluene	U		0.000278	0.00100	
Xylenes, Total	U		0.000174	0.00300	
(S) Toluene-d8	112			80.0-120	
(S) 4-Bromofluorobenzene	102			77.0-126	
(S) 1,2-Dichloroethane-d4	110			70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3717691-1 10/16/21 09:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	² Tc
Benzene	0.00500	0.00493	98.6	70.0-123		
Ethylbenzene	0.00500	0.00513	103	79.0-123		
Methyl tert-butyl ether	0.00500	0.00473	94.6	68.0-125		
Naphthalene	0.00500	0.00535	107	54.0-135		
Toluene	0.00500	0.00506	101	79.0-120		
Xylenes, Total	0.0150	0.0153	102	79.0-123		
(S) Toluene-d8			109	80.0-120		
(S) 4-Bromofluorobenzene			101	77.0-126		
(S) 1,2-Dichloroethane-d4			118	70.0-130		

Laboratory Control Sample (LCS)

(LCS) R3717691-2 10/16/21 09:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	³ Ss
TPH (GC/MS) Low Fraction	5.00	4.40	88.0	66.0-132		
(S) Toluene-d8			109	80.0-120		
(S) 4-Bromofluorobenzene			108	77.0-126		
(S) 1,2-Dichloroethane-d4			118	70.0-130		

QUALITY CONTROL SUMMARY

[L1416080-03,04,05,09,12](#)

Method Blank (MB)

(MB) R3719089-3 10/18/21 11:35

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	100		80.0-120	
(S) 4-Bromofluorobenzene	87.8		77.0-126	
(S) 1,2-Dichloroethane-d4	114		70.0-130	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3719089-1 10/18/21 10:14 • (LCSD) R3719089-2 10/18/21 10:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Benzene	0.00500	0.00518	0.00502	104	100	70.0-123			3.14	20
Ethylbenzene	0.00500	0.00467	0.00436	93.4	87.2	79.0-123			6.87	20
Toluene	0.00500	0.00480	0.00459	96.0	91.8	79.0-120			4.47	20
Xylenes, Total	0.0150	0.0133	0.0127	88.7	84.7	79.0-123			4.62	20
(S) Toluene-d8				98.1	96.4	80.0-120				
(S) 4-Bromofluorobenzene				93.0	93.9	77.0-126				
(S) 1,2-Dichloroethane-d4				119	115	70.0-130				

WG1759812

Volatile Organic Compounds (GC/MS) by Method 8260B

QUALITY CONTROL SUMMARY

[L1416080-06](#)

Method Blank (MB)

(MB) R3719647-5 10/20/21 03:09

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l	1 ¹ Cp
TPH (GC/MS) Low Fraction	U		0.108	0.500	
Benzene	U		0.0000941	0.00100	
Ethylbenzene	U		0.000137	0.00100	
Methyl tert-butyl ether	U		0.000101	0.00100	
Naphthalene	U		0.00100	0.00500	
Toluene	U		0.000278	0.00100	
Xylenes, Total	U		0.000174	0.00300	
(S) Toluene-d8	114		80.0-120		
(S) 4-Bromofluorobenzene	102		77.0-126		
(S) 1,2-Dichloroethane-d4	99.4		70.0-130		

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3719647-1 10/20/21 01:29 • (LCSD) R3719647-2 10/20/21 01:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %	2 ² Tc
Benzene	0.00500	0.00464	0.00464	92.8	92.8	70.0-123			0.000	20	
Ethylbenzene	0.00500	0.00427	0.00459	85.4	91.8	79.0-123			7.22	20	
Methyl tert-butyl ether	0.00500	0.00492	0.00505	98.4	101	68.0-125			2.61	20	
Naphthalene	0.00500	0.00422	0.00426	84.4	85.2	54.0-135			0.943	20	
Toluene	0.00500	0.00432	0.00454	86.4	90.8	79.0-120			4.97	20	
Xylenes, Total	0.0150	0.0130	0.0136	86.7	90.7	79.0-123			4.51	20	
(S) Toluene-d8				103	107	80.0-120					3 ³ Ss
(S) 4-Bromofluorobenzene					94.1	97.8	77.0-126				4 ⁴ Cn
(S) 1,2-Dichloroethane-d4					102	105	70.0-130				5 ⁵ Sr

Laboratory Control Sample (LCS)

(LCS) R3719647-3 10/20/21 02:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	6 ⁶ Qc
TPH (GC/MS) Low Fraction	5.00	4.56	91.2	66.0-132		
(S) Toluene-d8			105	80.0-120		
(S) 4-Bromofluorobenzene			108	77.0-126		
(S) 1,2-Dichloroethane-d4			103	70.0-130		

WG1757823

Semi-Volatile Organic Compounds (GC) by Method 8015C

QUALITY CONTROL SUMMARY

[L1416080-01,02,03,04,05,06,08,09,10,11,12,13](#)

Method Blank (MB)

(MB) R3717659-1 10/18/21 00:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
(WY) Diesel Range Organics	U		0.0294	0.100
(S) o-Terphenyl	82.5			52.0-156

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3717659-2 10/18/21 00:22 • (LCSD) R3717659-3 10/18/21 00:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits %
(WY) Diesel Range Organics	1.50	1.18	1.20	78.7	80.0	50.0-150			1.68	20
(S) o-Terphenyl			73.0	54.0	52.0-156					

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.	¹ Cp
RDL	Reported Detection Limit.	² Tc
Rec.	Recovery.	³ Ss
RPD	Relative Percent Difference.	⁴ Cn
SDG	Sample Delivery Group.	⁵ Sr
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.	⁶ Qc
U	Not detected at the Reporting Limit (or MDL where applicable).	⁷ GI
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	⁸ AI
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.	⁹ SC
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.	
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.	
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.	
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.	
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.	
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.	
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.	
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.	
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.	
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.	

Qualifier Description

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey—NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio—VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Terracon-Salt Lake City, UT
6949 S. High Tech Drive
Midvale, UT 84047

Report to:
Curt Stripeika

Project Description:
Triple Stop Chevron

Phone:
801-545-8500

Client Project #
61197153

Collected by (print):
Roy McDonald

Site/Facility ID #

Collected by (signature):
Bjornell

Rush? (Lab MUST Be Notified)

Immediately
Packed on Ice N Y

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

City/State
Collected: Layton, UT

Please Circle:
PT MT CT ET

Lab Project #
TERRDUT-61197153

P.O. #

Quote #

Date Results Needed

Terracon Standard

No.
of
Cntrs

Sample ID

Comp/Grab

Matrix*

Depth

Date

Time

Cntrs

MW-13

GRAB

GW

-

10/8/21

905

8

X

X

X

X

X

X

-10

RW-2

1

1

-

1008

5

X

X

X

-11

MW-14

1

1

-

1105

5

X

X

X

-12

MW-10

1

1

-

1200

5

X

X

X

-13

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other _____

Remarks:

Samples returned via:
UPS FedEx Courier

Tracking #

Relinquished by : (Signature)

Relinquished by : (Signature)

Relinquished by : (Signature)

pH _____

Temp _____

Flow _____

Other _____

Received by: (Signature)

Trip Blank Received: Yes No
HCl / MeOH
TBR

Date: 10/8/21 Time: 12:34

Temp: A38C Bottles Received: 83

Received by: (Signature)

Date: 03-0-0.3 Time: 17:00

Received for lab by: (Signature)

Date: 10-9-21 Time: 0900

Sample Receipt Checklist
COC Seal Present/Intact: NP N
COC Signed/Accurate: N
Bottles arrive intact: N
Correct bottles used: N
Sufficient volume sent: N
If Applicable
VOA Zero Headspace: N
Preservation Correct/Checked: Y N
RAD Screen < 0.5 mR/hr: Y N

If preservation required by Login: Date/Time

Condition: NCF OK

Chain of Custody Page 1 of 1

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



SDG # 146080

Table #

Acctnum: TERRDUT

Template: T196409

Prelogin: P877592

PM: Chris Ward

PB:

Shipped Via:

Remarks Sample # (lab only)